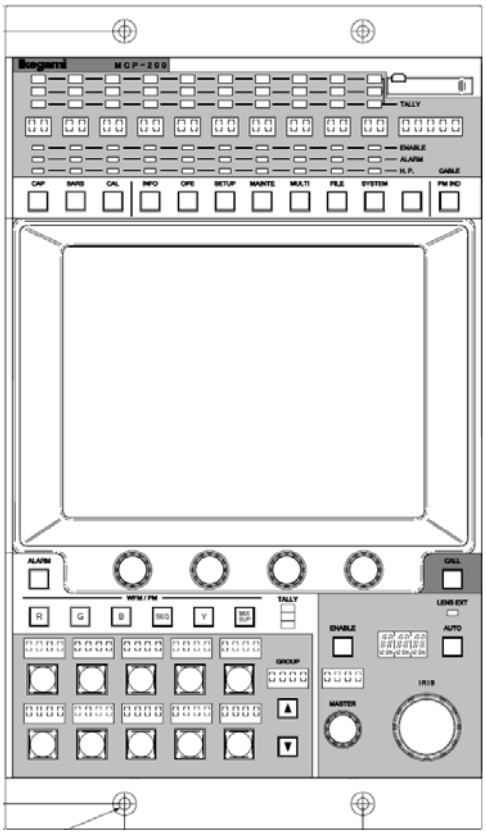


MCP-200

Master Control Panel

OPERATION MANUAL

Ikegami

MCP-200 MASTER CONTROL PANEL

OPERATION MANUAL

CONTENTS

1. OUTLINE

1.1 Outline

This is the master control panel which is designed to use with BS（Base Station/CCU（Camera Control Unit）or with CP-HUB for network control.

1.2 Feature

●Network control capability

Not only current serial command control but network control is also available. By using network technology, panel assignment or another various application will be available. Serial command and network command can be selected by the switch on MCP-200.

●7.5inch color LCD display with touch sensor

LCD menu includes not only existing MCP functions but further unique features as the MCP-200. And optimized menu layer supports easier control or setting.

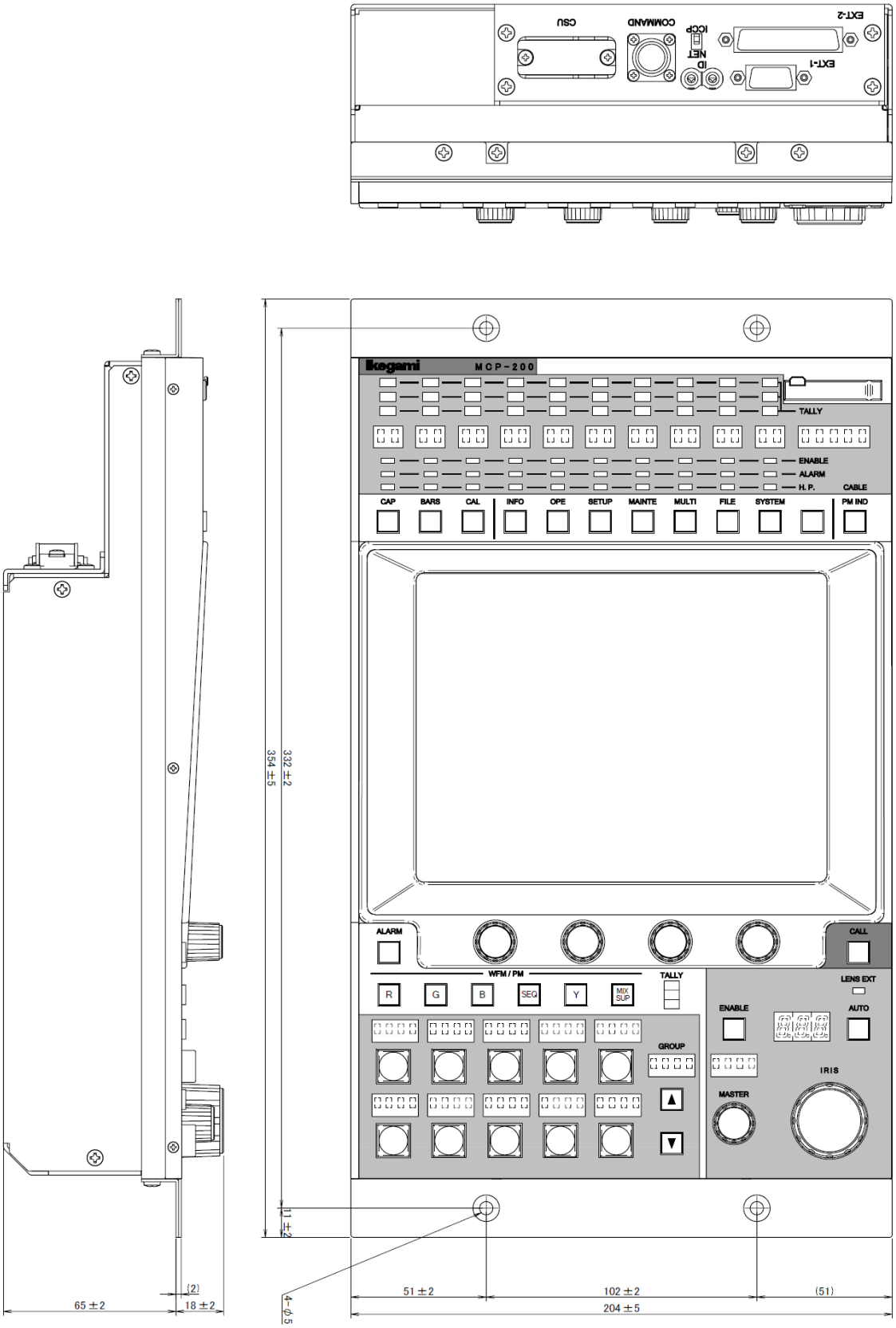
●Memory card slot

Various files of camera at BS/CCU can be stored or loaded. And update of MCP firmware for new additional function via SD memory card is also available.

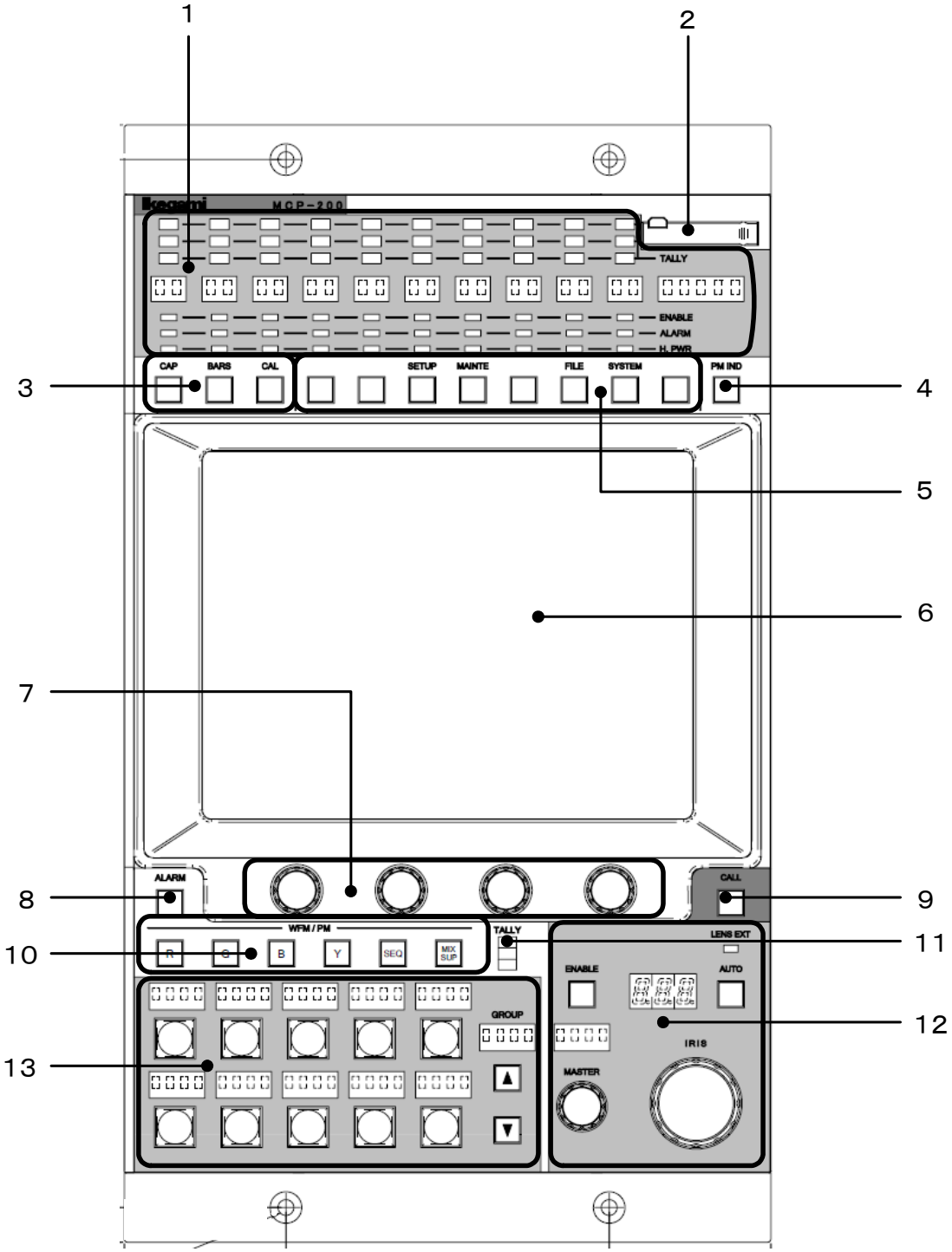
Notice Each of switches or control functions in MCP doesn't work if the camera doesn't have that function. Please check with camera operation manual whether the camera has that function before operation.

Caution Do not connect MCP-200 to camera head directly. Because Power consumption of MCP-200 is beyond the power output capacity from camera head, it may cause trouble with camera head.

1.3 External Appearance



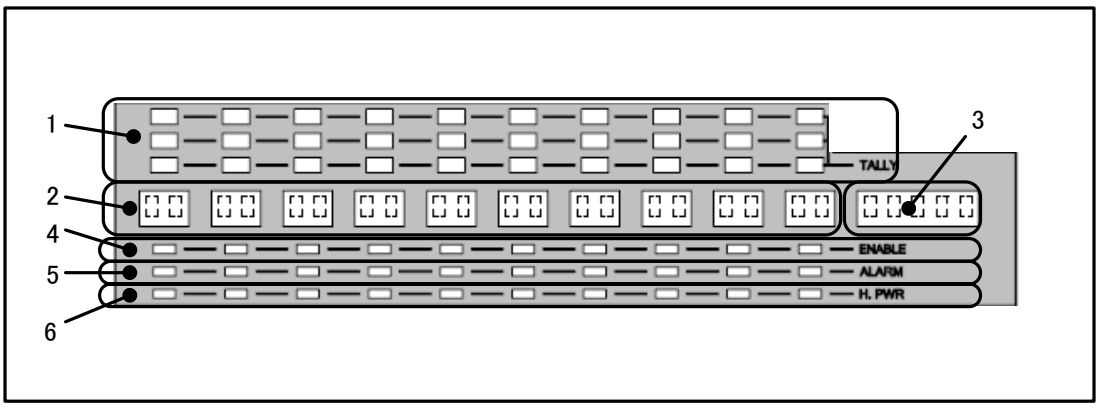
2. NOMENCLATURE and FUNCTIONS



1. Status Indicators
2. Memory Card Slot
3. Camera Control Switches
4. PM IND/PAGE Switch
5. Function Switches
6. LCD Panel
7. Rotary Encoders
8. Alarm Indicator
9. CALL Switch
10. WFM/PM Control Switches
11. Tally Indictor
12. PED, IRIS Control Portion
13. Camera Select Switches

1 Status Indicators

Each camera statuses are indicated vertically.



1. **TALLY Indicator**

   From the top side, R TALLY, G TALLY and Y TALLY of each camera are indicated. Each colors of lighting is RED, Green and Yellow. R TALLY indicator will light when CALL Switch of camera head or BS/CCU is pushed.

2. **Camera Number Indicator**

   Up to 10 grouped camera numbers are indicated.

3. **Group Name Indicator**

   Indicated group name is displayed.

4. **Enable Indictor**

   Indicator lights Green when camera is controllable from MCP-200.

5. **Alarm Indicator**

   Indicator lights Red when camera head or BS/CCU is in trouble.

6. **Head Power / Cable Indicator**

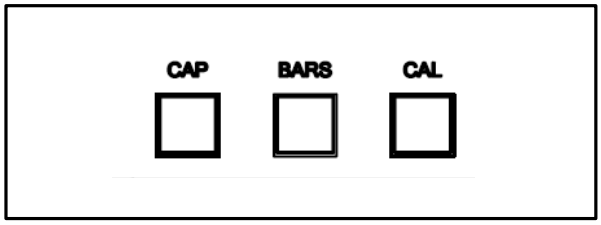
   Indicator lights Green when camera power is ON.
   Indicator lights Red when Triax or Fiber Cable between camera and BS/CCU is in trouble.

2 Memory Card Slot

This slot is used to save to / load from memory card (SD Card) of camera setting parameter.
To use memory card, insert memory card calmly until clicking. And to eject memory card, push top of memory card calmly until click. Memory card will pop up to be picked up. Slot should be used for dust proof when memory card is not used. Access indictor lamp on the side of slot lights in saving/loading. Do not remove memory card when access indicator is lighting. There is a possibility to damage data of not only memory card but camera and BS/CCU.

3 Camera Control Switches

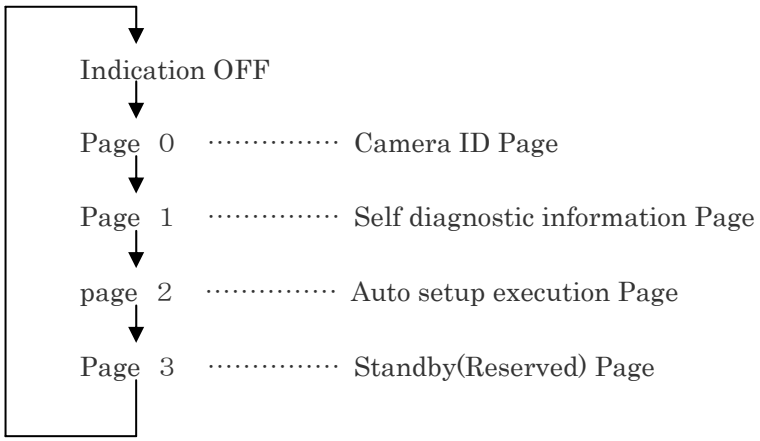
It enables direct camera control.



- **CAP Switch**
  Set optical filter to CAP position.
- **BARS Switch**
  Outputs color bar to ENC output.
- **CAL Switch**
  CAL signal of 100% level is input to video process circuit of camera head.

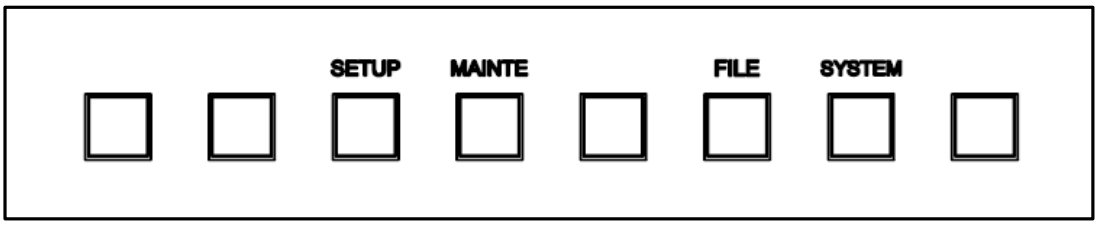
4 PM IND/PAGE Switch

Various information of characters are overlaid on BS/CCU PM output. Each of information is indicated sequentially as following by pressing this switch.



5 Function Switches

Function call switches of LCD Menu.



- SETUP Switch
  Enables LCD Menu to setup mode.
- MAINTE Switch
  Enables LCD Menu to maintenance mode. It is separated from SETUP Menu by operating frequency.
- FILE Switch
  Enables LCD Menu to file operation.
- SYSTEM Switch
  Enables LCD Menu to control external unit except camera system. Not available yet.

6 LCD Touch Screen

Combines 7.5inch LCD panel and touch sensor. It has both display function and switch function to use for various control setting and operation for Camera Head and BS/CCU. Refer “3.1 Basic configuration and operation” for practical operation.

7 Rotary Encoders

Is used to control parameters when function switches are displayed on LCD display.

8 ALARM Indictor

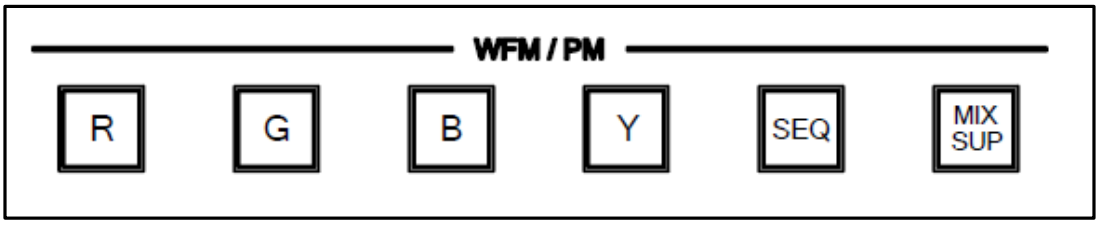
Alarm lamp will blink when any NG is found on the system by the detection of self-diagnosis function.

9 CALL Switch

To press to light RED TALLY of camera head and BS/CCU.
Call switch will light when call switch of camera head and BS/CCU is pressed.

10 WFM/PM Control Switches

To select WFM output and PM output.



"R", "G", "B", and "Y" can be output to the WFM output and the PM output. When "SEQ" is selected, three wave forms (R, G, and B) are output only as for the WFM output. To display treble signal on Waveform Monitor, it is necessary to connect WFM Remote Connector of BS/CCU to Waveform Monitor.

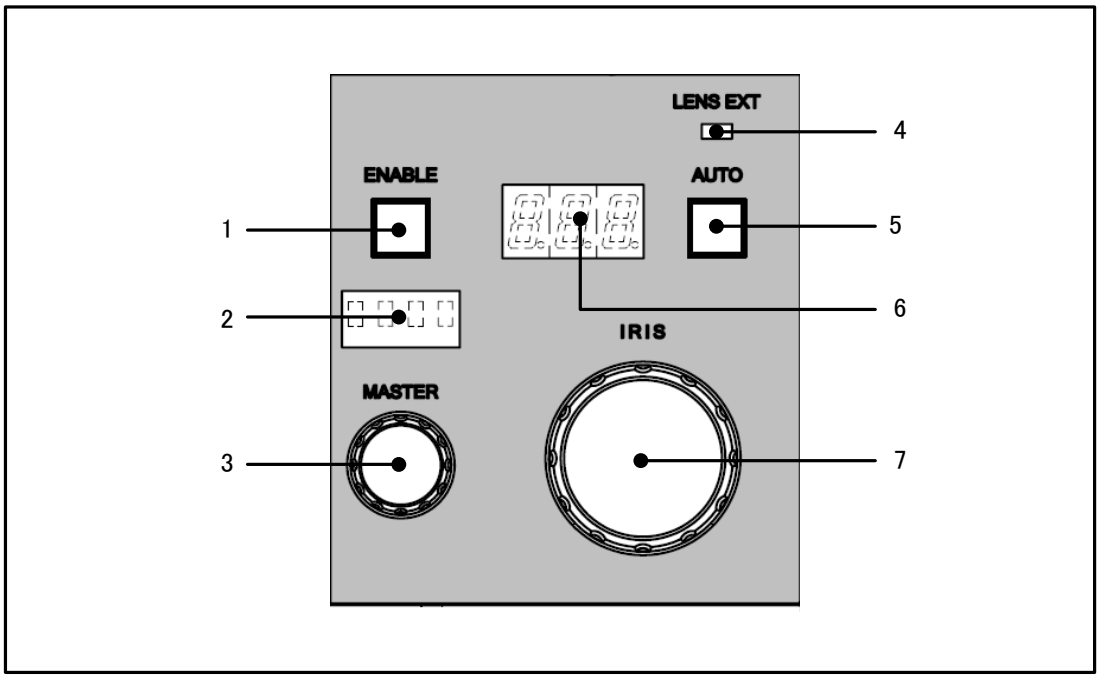
In case of "MIX/SUP" is ON, selected signals are output to PM output and WFM output. If it is set "OFF", the last selected 1 ch of signal is output to PM output and WFM output. But these switches work when BS/CCU/CSU is connected. Without connecting each of them(=Self-contain operation), it is set to "OFF" automatically.

11 TALLY Indicator

R TALLY, G TALLY and Y TALLY Indicators

12 PED, Iris Control Portion

To adjust Iris and Master PED.



1. IRIS/MASTER PED Enable Switch

Push this switch in case of IRIS or MASTER PED adjustment.

2. MASTER PED Indicator

Indicates MASTER PED parameter.

3. M.PED Knob

To control MASTER PED.

4. LENS EXT Indicator

LED lights when Lens Extender is “ON”.

5. AUTO IRIS Switch

To select AUTO IRIS mode.

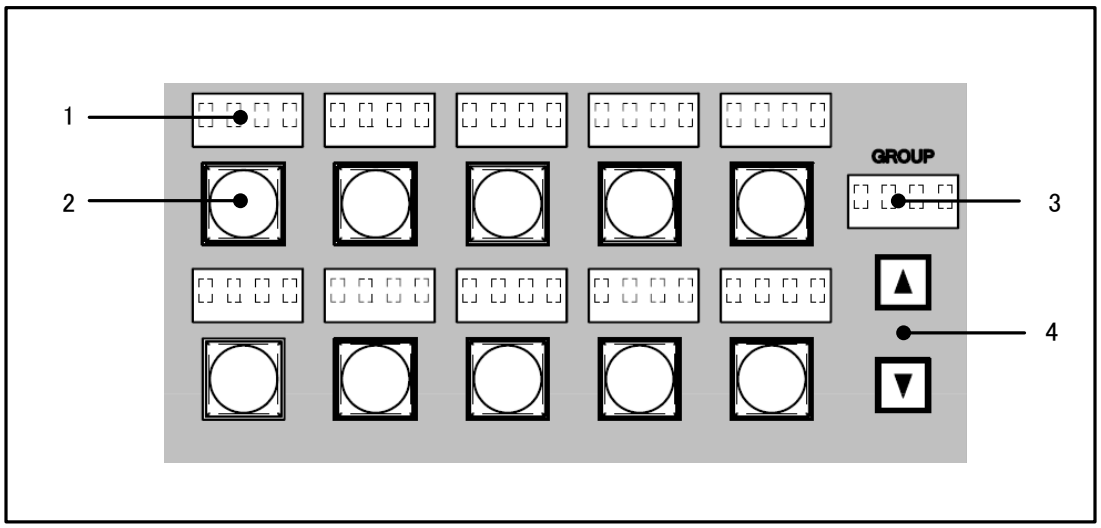
6. IRIS Indicator

To indicate F number of Lens.
From F16 to CLOSE, indication will be ” ---” and F number is not displayed.

7. IRIS Knob

To control IRIS. +/- 1 stop of F number control is done at AUTO IRIS mode.

13 Camera Select Switches

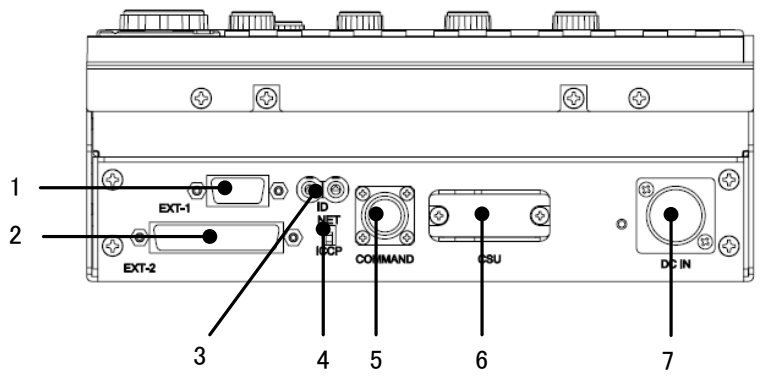


1. **Camera Number Indicator**
   To indicate Camera Number.

2. **Camera Select Switch**
   To select control target of camera.

3. **Group Name Indicator**
   Group Name is displayed when camera select group is registered. *Not used yet. Only the display of "1"

4. **Group Select Switch**
   To select camera control target of camera group. *Not used yet.



1. EXT-1 Connector
2. EXT-2 Connector
3. ID Setting Switch
4. NET/ICCP Select Switch
5. COMMAND Connector
6. CSU Connector
7. DC IN Connector

1. EXT-1 Connector

For system expansion *Not used yet.

2. EXT-2 Connector

For system expansion *Not used yet.

3. ID Setting Switch

To set Network ID of MCP. This is used for Network connection. ID should not be duplicated on the network.

4. NET/ICCP Select Switch

To select Network connection and traditional Ikegami Serial Command(ICCP).

NET : Network connection

ICCP : Ikegami Serial Command(ICCP) connection

5. COMMAND Connector

Connect Ikegami CP Cable.

6. CSU Connector

Connect Ikegami MCP Cable to CSU.

7. DC IN Connector

An external power supply is connected with MCP (+12VDC).

When the cable extension distance of BS/CCU and CSU is long etc. , this connector is used.

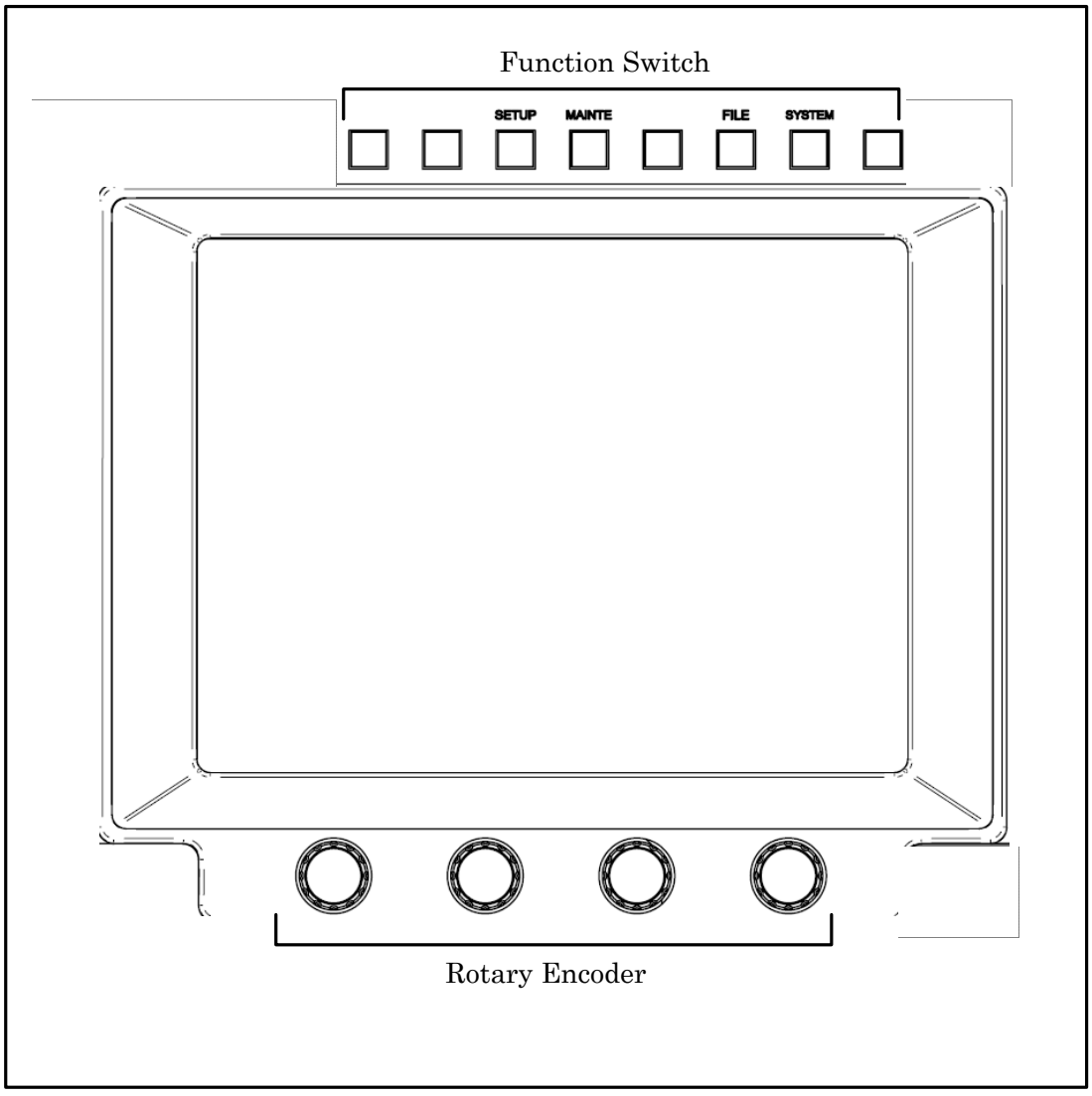
Caution Please do not connect the cable with CSU Connector and COMMAND Connector at the same time for MCP Model without the DC IN connector.

3. LCD MENU

The MCP-200 provides various functions with LCD touch panel, which enable you to confirm the ON/OFF status of the camera functions as well as adjust each functions on the LCD screen by using the rotary encoder.

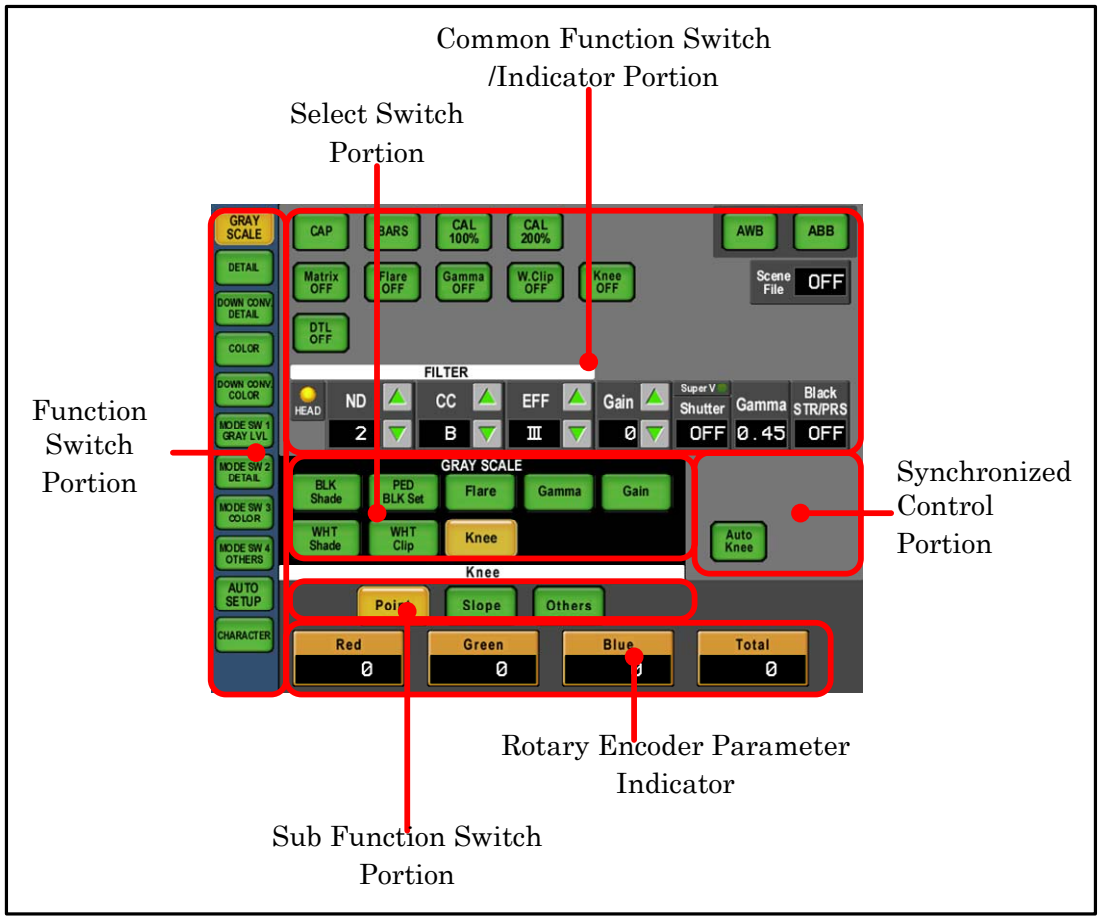
3.1 Basic configuration and operation

Operation of LCD screen (menu) is started with function switches located on top side of LCD. Those function switches are specified by each functionality of LCD menu.



Outline of Function Switches shows below.

- **SETUP Switch**
  Enables LCD Menu to setup mode.
- **MAINTE Switch**
  Enables LCD Menu to maintenance mode. It is separated from SETUP Menu by operating frequency.
- **FILE Switch**
  Enables LCD Menu to file operation.
- **SYSTEM Switch**
  Enables LCD Menu to control external unit except camera system. Not available yet.



Switch icon on LCD and Rotary Encoder function display is classified by color. The color will change automatically by functionality of connected camera and BS/CCU.

Item	Color	Condition	
Switch	Amber	Function ON	Active
	Green	Function OFF	Stand by
	Dark Gray	No Function	
Rotary Encoder	Amber	Controllable	
	Light gray	Uncontrollable(*)	

Note Depending on the type or functionality of camera and BS/CCU, rotary encoder can be controlled when icon is light gray. Since the functionality is not active when icon is light gray, changed parameter doesn't reflect to the video. If the parameter was changed when the function was off, there is a possibility to reflect to the video when the function turns on.

1 Function Switch Portion

LCD Menu is sorted by control function and control item. Control function can be selected by function switch.

Below function switches are included in SETUP Menu.

- GRALY SCALE
- DETAIL
- DOWN CONV. DETAIL
- COLOR
- DOWN CONV. COLOR
- MODE SW 1 GRAY LVL
- MODE SW 2 DETAIL
- MODE SW 3 COLOR
- MODE SW 4 OTHERS
- AUTO SETUP
- CHARCTERS

2 Common Function Switch/Indicator Portion

Below listed functions can be controlled under SETUP Menu and other Menu. ON/OFF control of Camera Head and BS/CCU. Some of items are indicated the status. The setting can be done with function switch SETUP Menu to select Mode SW 1 to SW4.

Function	Control
CAP	CAP ON/OFF
BARS	Color Bar ON/OFF
CAL100%	CAL100% ON/OFF
CAL200%	CAL200% ON/OFF
Matrix OFF	Matrix ON/OFF
Flare OFF	Flare ON/OFF
Gamma OFF	Gamma ON/OFF
W.Clip OFF	White Clip ON/OFF
Knee OFF	Knee ON/OFF
DTL OFF	DTL ON/OFF
FILTER HEAD	Filter Head ON/OFF
ND FILTER	ND Filter Selection
CC FILTER	CC Filter Selection
EFF FILTER	Effect Filter Selection
Gain	Gain Selection
C.Temp	Electric Color Temp. Filter Select
AWB	Auto White Balance Control
ABB	Auto Black Balance Control

Indication	Status
SuperV	Super-V Setting
Shutter	Electric Shutter Setting
Gamma	Gamma Setting
Black STR/PRS	Black Stretch/Press setting
Scene File	Scene File Setting

3 Function Switch Portion

Select control function. Sub function switches are comes up if control items are following in lower menu layer. And related ON/OFF Setting switch will come up in synchronized control portion.

4 Sub Function Switch Portion

Select sub function to be controlled.

5 Synchronized Control Portion

Related control switch will come up automatically.

6 Rotary Encoder Parameter Indicator

Function name and control data (+100% to -100%) or Mode are displayed.
Adjust parameters by Rotary Encoder right under the indicator.

3.2 SETUP

3-2-1.GRAY SCALE

Below operation is available by pushing GRAY SCALE switch.

GRAY SCALE Page 1/2

Description	Sub-description	ON/OFF, Function	Control Subject
BLK Shade	Red	H Saw/H para/V Saw/V para	Black Shading Control
		B.Shade OFF	Black Shading ON/OFF
		W.Shade OFF	White Shading ON/OFF
	Green	H Saw/H para/V Saw/V para	Black Shading Control
		B.Shade OFF	Black Shading ON/OFF
		W.Shade OFF	White Shading ON/OFF
	Blue	H Saw/H para/V Saw/V para	Black Shading Control
		B.Shade OFF	Black Shading ON/OFF
		W.Shade OFF	White Shading ON/OFF
PED / BLK Set	PED	Red/Green/Blue/Master	Pedestal Control
		BLK Gamma	Black Gamma ON/OFF
		BLK STR/PRS	Black Press/Stretch ON/OFF
	BLK Set	Red/Green/Blue	Black Set Control
		Gain Wobble	Gain Wobble ON/OFF
Flare		Red/Green/Blue/Mater	Flare Control
		BLK Gamma	Black Gamma ON/OFF
		BLK STR/PRS	Black Press/Stretch ON/OFF
Gamma	(non select)	Red/Green/Blue/Mater	Gamma Control
		BLK Gamma	Black Gamma ON/OFF
		BLK STR/PRS	Black Press/Stretch ON/OFF
	BLK Gamma	Red/Green/Blue/Mater	Black Gamma Control
		BLK Gamma	Black Gamma ON/OFF
		BLK STR/PRS	Black Press/Stretch ON/OFF
	Step Gamma	Step	Step Gamma Select
Gain		Red/Green/Blue	Gain Control
		Auto Knee	Auto Knee ON/OFF

Gray shadowed items are controlled by Rotary Encoder.

GRAY SCALE Page 2/2

Description	Sub-description	ON/OFF, Function	Control subject
WHT Shade	Red	H Saw/H para/V Saw/V para	White Shading Control
		W.Shade OFF	White Shading ON/OFF
	Green	H Saw/H para/V Saw/V para	White Shading Control
		W.Shade OFF	White Shading ON/OFF
	Blue	H Saw/H para/V Saw/V para	White ShadingControl
		W.Shade OFF	White Shading ON/OFF
WHT Clip		Red/Green/Blue	White Clip Control
		Auto Knee	Auto Knee ON/OFF
Knee	Point	Red/Green/Blue/Total	Knee Point Control
		Auto Knee	Auto Knee ON/OFF
	Slope	Red/Green/Blue/Total	Knee Slope Control
		Auto Knee	Auto Knee ON/OFF
	Others	Smooth Knee	Smooth Knee Select
		Super Knee	Super Knee Select

Gray shadowed items are controlled by Rotary Encoder.

3-2-2. DETAIL/DOWN CONV.DETAIL

By pushing DETAIL switch or DOWN CONV. DETAIL switch, below items will be controllable. DOWN CONV. DETAIL switch will work with the camera or BS/CCU of which employs down converter.

DETAIL/DOWN CONV.DETAIL Page 1/2

Description	Sub-description	ON/OFF, Function	Control subject
DTL 1		Gain	Detail Gain Control
		FREQ.	Detail Boost Frequency Control
		Balance	Detail Balance Control
		DTL OFF	Detail ON/OFF
DTL 2		Thresh	Detail Thresh Control
		Fine	Fine Detail Control
		Noise SUP.	Noise Suppression Control
		Z.TrackGain	Zoom Tracking Detail Control
		DTL OFF	Detail ON/OFF
		Zoom Track	Zoom Tracking Detail ON/OFF
Soft		WHT SUP.	White Suppression Control
		BLK SUP.	Black Suppression Control
		DTL OFF	Detail ON/OFF
		Soft DTL	Soft Detail ON/OFF
Skin		Gain	Skin Detail Gain Control
		R Hue	Rch Hue Control
		B Hue	Bch Hue Control
		Z. Track Gain	Zoom Tracking Detail Control
		Zebra IND.	Zebra Indicator ON/OFF
		AHD Start	AHD Start
		Skin DTL	Skin Detail ON/OFF
		Z.Track Skin	Zoom Tracking Skin Detail ON/OFF

Gray shadowed items are controlled by Rotary Encoder.

DETAIL/DOWN CONV.DETAIL Page 2/2

Description	Sub-description	ON/OFF, Function	Control Subject
Color	Level	Gain	Color Detail Control
		DTL OFF	Detail ON/OFF
		Color DTL	Color DTL ON/OFF
	Object Clip	Size	Marker Size Control
		H POS.	Marker H Position Control
		V POS.	Marker V Position Control
		Key INV.	Key Inversion
		AHD Start	AHD Start
		DTL OFF	Detail ON/OFF
		Color DTL	Color Detail ON/OFF
	Clip ADJ.	Phase	Phase Coarse Control
		Fine	Phase fine Control
		Width1	Hue Range 1 Control
		Width2	Hue Range 2 Control
		Key INV.	Key Inversion
		Zebra IND.	Zebra Indicator ON/OFF
		DTL OFF	Detail ON/OFF
		Color DTL	Color Detail ON/OFF
HI-Light		Gain	High Light Detail Gain
		Limit	High Light Detail Limit
		HI-Light DTL	High Light Detail ON/OFF

Gray shadowed items are controlled by Rotary Encoder.

3-2-3.COLOR/DOWN CONV.COLOR

By pushing COLOR switch or DOWN CONV. Color switch, below items will be controllable. DOWN CONV. DETAIL switch will work with the camera or BS/CCU of which employs down converter. And Custom Color 1,Custom Color 2, Color CORR. are enable at COLOR function is selected.

COLOR Page 1/2

Selection	Sub-selection	ON/OFF, Function	Control Subject
Matrix	Red	R-G	R-G Control
		R-B	R-B Control
		Matrix Select	Matrix Select
	Green	G-R	G-R Control
		G-B	G-B Control
		Matrix Select	Matrix Select
	Blue	B-R	B-R Control
		B-G	B-G Control
		Matrix Select	Matrix Select
Color SAT.		Color SAT.	Color Saturation Control
		Chroma OFF	Chroma ON/OFF
		Color SAT. ON/OFF	Color Saturation ON/OFF
Custom Color 1	Color	Hue	Hue Control
		SAT.	Saturation Control
		Value	Luminance Control
		DTL	Detail Control
		CSTM Color 1	Custom Color 1 ON/OFF
	Object Clip	Size	Marker Size Control
		H POS.	Marker H Position Control
		V POS.	Marker V Position Control
		Key INV.	Key Inversion
		AHD Start	AHD Start
		CSTM Color 1	Custom Color 1 ON/OFF
	Clip ADJ.	Phase	Phase Coarse Control
		Fine	Phase Fine Control
		Width1	Hue Range 1 Control
		Width2	Hue Range 2 Control
		Key INV.	Key Inversion
		Zebra IND.	Zebra Indicator ON/OFF
		CSTM Color 1	Custom Color 1 ON/OFF

Gray shadowed items are controlled by Rotary Encoder.

COLOR Page 2/2

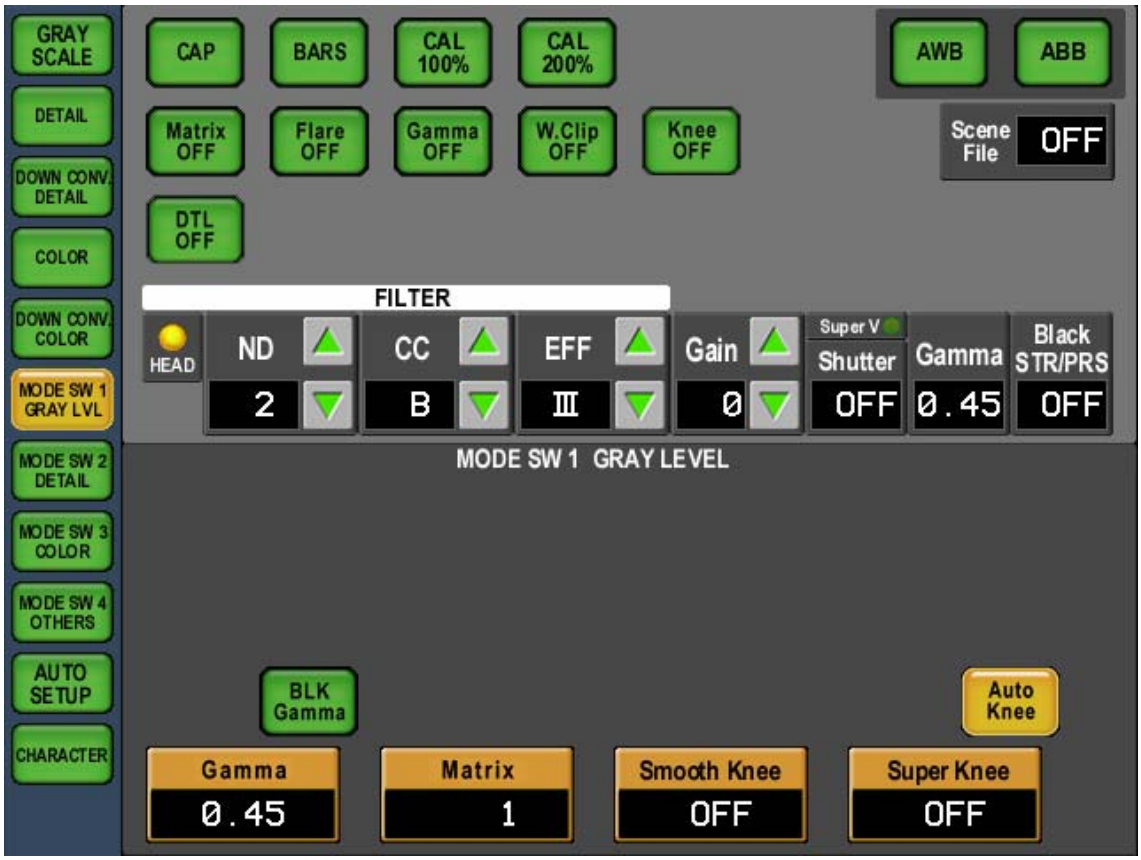
Description	Sub-description	ON/OFF, Function	Control Subject
Custom Color 2	Color	Hue	Hue Control
		SAT.	Saturation Control
		Value	Luminance Control
		DTL	Detail Control
		CSTM Color 2	Custom Color 2 ON/OFF
	Object Clip	Size	Size Control
		H POS.	H Position Control
		V POS.	V Position Control
		Key INV.	Key Inversion
		AHD Start	AHD Start
		CSTM Color 2	Custom Color 2 ON/OFF
	Clip ADJ.	Phase	Phase Coarse Control
		Fine	Phase Fine Control
		Width1	Hue Range 1 Control
		Width2	Hue Range 2 Control
		Key INV.	Key Inversion
		Zebra IND.	Zebra Indicator ON/OFF
		CSTM Color 2	Custom Color 2 ON/OFF
Color CORR.	R / Yl	R Hue	Red Hue Control
		R SAT.	Red Saturation Control
		Yl Hue	Yellow Hue Control
		Yl SAT.	Yellow Saturation Control
		Color CORR.	Color Corrector ON/OFF
	G / Cy	G Hue	Green Hue Control
		G SAT.	Green Saturation Control
		Cy Hue	Cyan Hue Control
		Cy SAT.	Cyan Saturation Control
		Color CORR.	Color Corrector ON/OFF
	B / Mg	B Hue	Blue Hue Control
		B SAT.	Blue Saturation Control
		Mg Hue	Magenta Hue Control
		Mg SAT.	Magenta Saturation Control
		Color CORR.	Color Corrector ON/OFF

Gray shadowed items are controlled by Rotary Encoder.

3-2-4.MODE SWITCH

By pushing MODE switch, ON/OFF Control or function select of Camera Head or BS/CCU is available. Below four switches are assigned by each function or control item.

- **MODE SW 1 GRAY LVL**
- **MODE SW 2 DETAIL**
- **MODE SW 3 COLOR**
- **MODE SW 4 OTHERS**



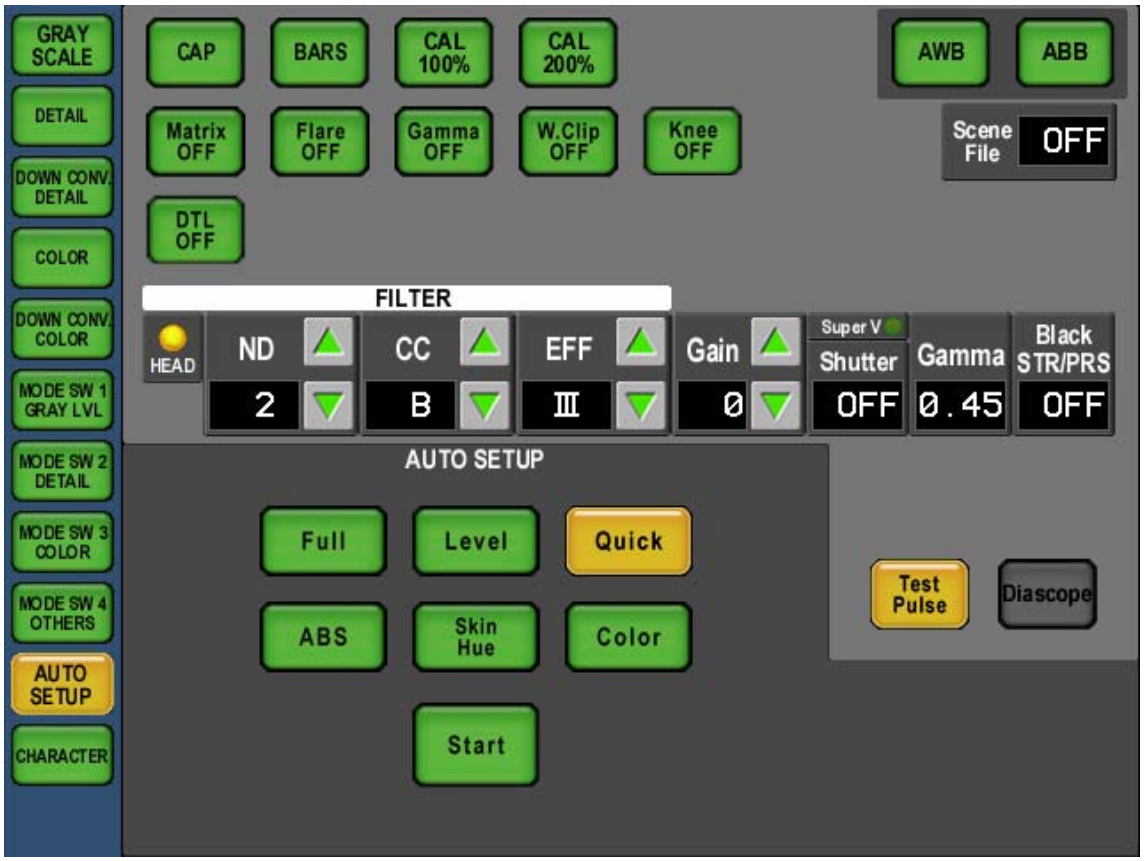
MODE SWITCH Page(Setup)

Page	ON/OFF, Function	Control Subject
MODE SW 1	BLK GAMMA	Black Gamma ON/OFF
GRAY LVL	Gamma	Gamma Control
	Matrix	Matrix Control
	Smooth Knee	Smooth Knee Control
	Super Knee	Super Knee Selection
MODE SW 2	Soft DTL	Soft Detail ON/OFF
DETAIL	Skin DTL	Skin Detail ON/OFF
	Slim DTL	Slim Detail ON/OFF
	Diagonal DTL	Diagonal Detail ON/OFF
	Z.Track DTL	Zoom Tracking Detail ON/OFF
	Z.Track Skin	Zoom Tracking Skin Detail ON/OFF
	Color DTL	Color Detail ON/OFF
	Hi-Light DTL	High Light Detail ON/OFF
MODE SW 3	Color SAT.	Color Saturation ON/OFF
COLOR	Chroma OFF	Chroma ON/OFF
	Color CORR.	Color Corrector ON/OFF
	C.Temp 5600K	Electric Color Temp. Correction 5600K ON/OFF
	CSTM Color 1	Custom Color 1 ON/OFF
	CSTM Color 2	Custom Color 2 ON/OFF
	Matrix	Matrix Selection
MODE SW 4	Super V	Super-V ON/OFF
OTHERS	Shutter	Electric Shutter ON/OFF
	VAR.	Variable Shutter ON/OFF
	Black STR/PRS	Black Press/Stretch ON/OFF
	Super V	Super-V Selection
	Shutter	Electric Shutter Speed Selection
	Black STR/PRS	Black Press/Stretch Selection

Gray shadowed items are controlled by Rotary Encoder.

3-2-5.AUTO SETUP

By pushing AUTO SETUP switch, Auto Setup(Automatic Adjustment) of camera head can be done.



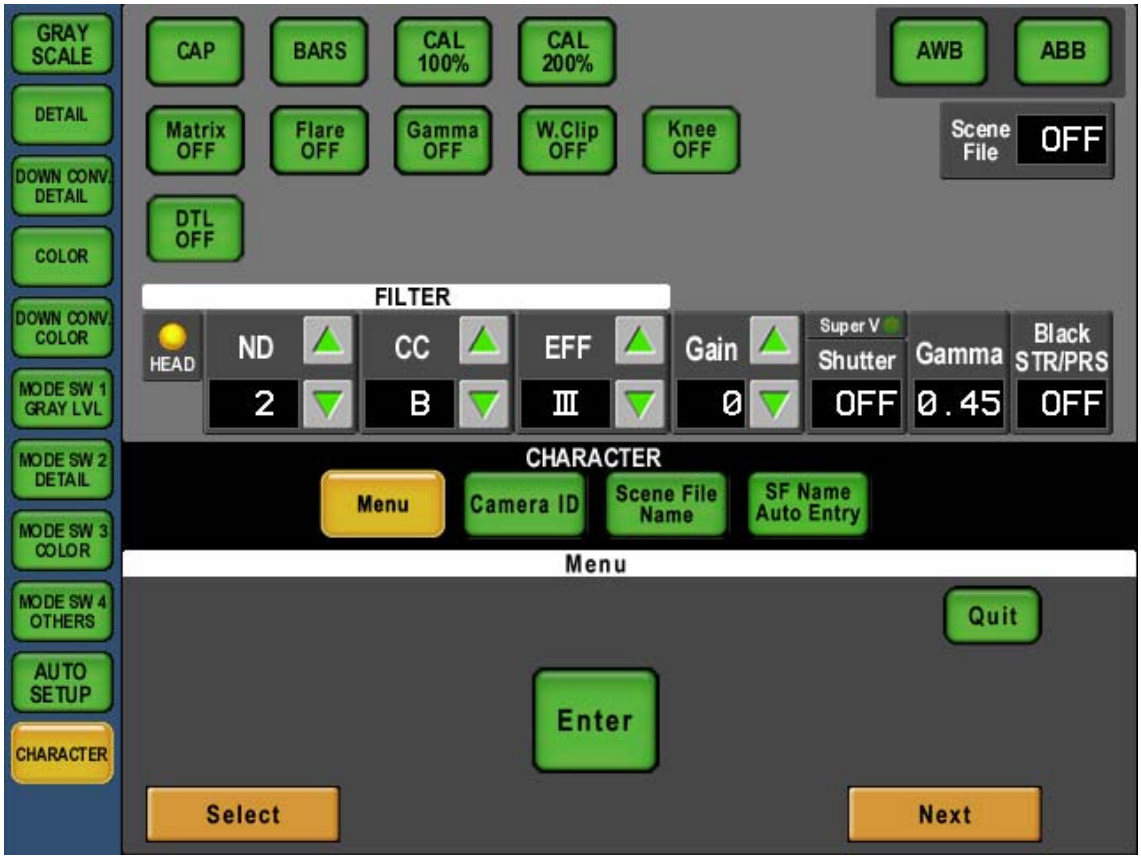
On the LCD Screen,

- **Full**
- **Level**
- **Quick**
- **ABS**
- **Skin Hue**
- **Color**

switches are Auto Setup control subject. Select control subject and push Start switch to start automatic adjustment. Turn ON/OFF “Test Pulse” or “Diascope”, if necessary. In case of Auto Setup failure, Start switch will blink. The failure status can be released with one more pushing to Start switch. By pushing Start switch at the Auto Setup execution, Auto Setup processing can be cancelled.

3-2-6.CHARCTER

To set Camera Head or BS/CCU Menu and Character Mix on PM Output. It is necessary to push a couple of seconds this switch to avoid miss-operation.



- **Menu Switch**

  To set Camera Head or BS/CCU Menu.

  Control subject can be selected with Select knob(left side of rotary encoder) and Next knob(Right side of rotary encoder), and push Enter switch on LCD to activate the control subject.

  In case of connecting BS/CCU, unique menu for BS/CCU will come up for BS/CCU menu control. And in connecting Camera Head, another unique menu for Camera Head will come up for Camera Head menu control.

  At the menu selection, Select knob and Next knob works in the same way.

  In case of BS/CCU connection, Select knob and Next knob work separately at the BAR TITLE input etc.

  And some Camera Head or BS/CCU requires to set BARS ON to call up MENU.

- **Camera ID Switch(Doesn't work yet)**

  To set Camera ID(previous Camera Man Name) of which is mixed to PM output from BS/CCU.

- **Scene File Name Switch(Doesn't work yet)**

  To set Scene File Name of which is mixed to PM output from BS/CCU.

- **SF Name Auto Entry Switch(Doesn't work yet)**

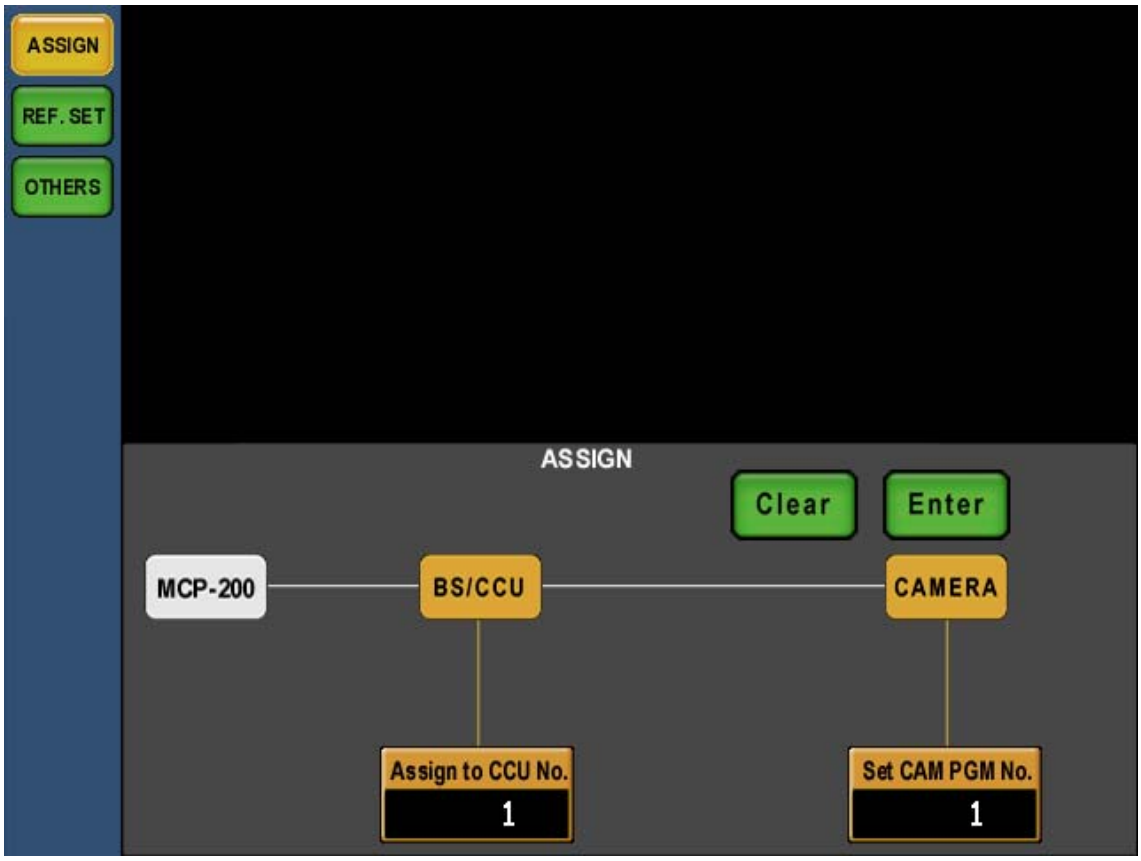
  To set automatic read out of Scene File Name setting page of which is mixed to PM output at the Scene File store.

3.3 MAINTE

The below menu page will come up when MAINTE Switch is turned “ON” on LCD screen.

3-3-1.ASSIGN

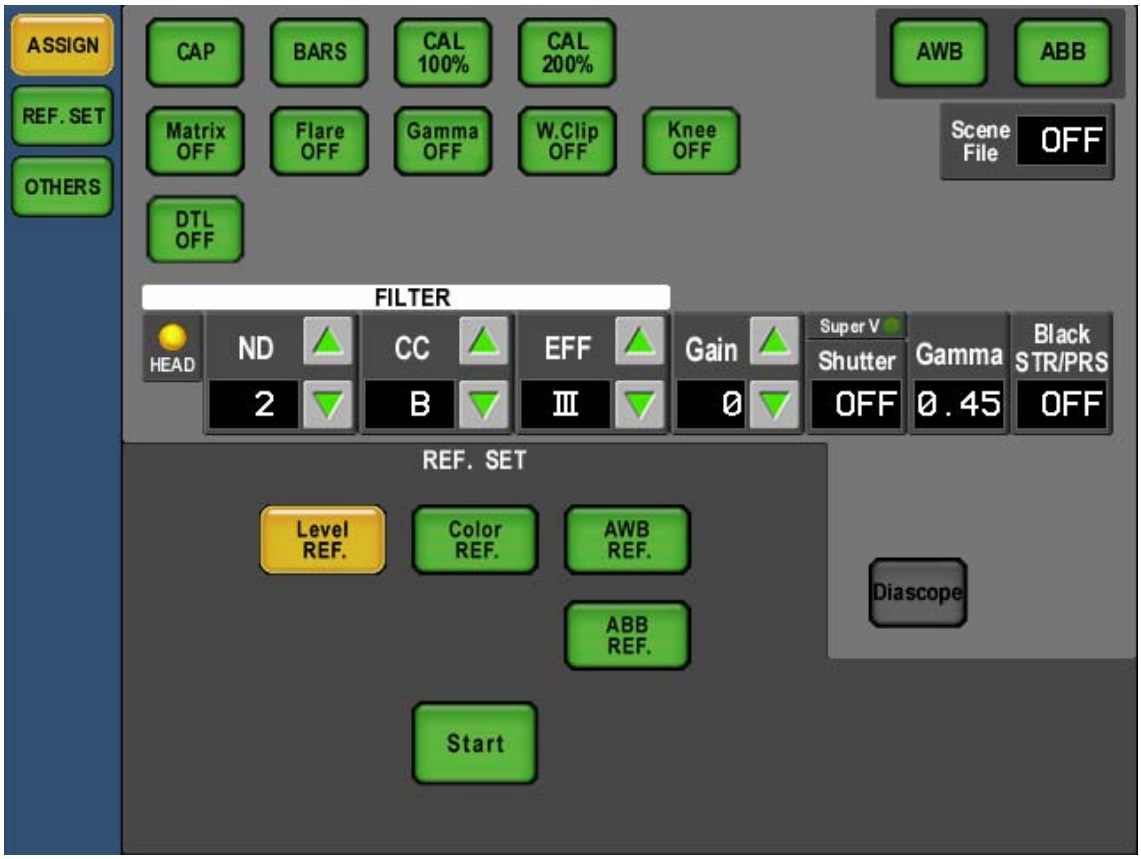
At the network connection, to assign each of BS/CCU to each of Camera Select Switch on bottom side of MCP. Push each of Camera Select Switch first and set the assignment.



Set BS/CCU number by left center rotary encoder.
Set program camera number by right rotary encoder. This number is indicated on Camera Number Indicator of Camera Select Portion and Status Indicator Portion. And this camera number is indicated on the camera head which has optional camera number indictor.
To clear the setting, push Clear switch in two seconds.
To push Enter switch in two seconds to enter the setting.
In case of traditional Ikegami command(ICCP) connection, only program camera number can be set.

3-3-3.REF. SET

To set reference value of the target for Camera Auto Setup.

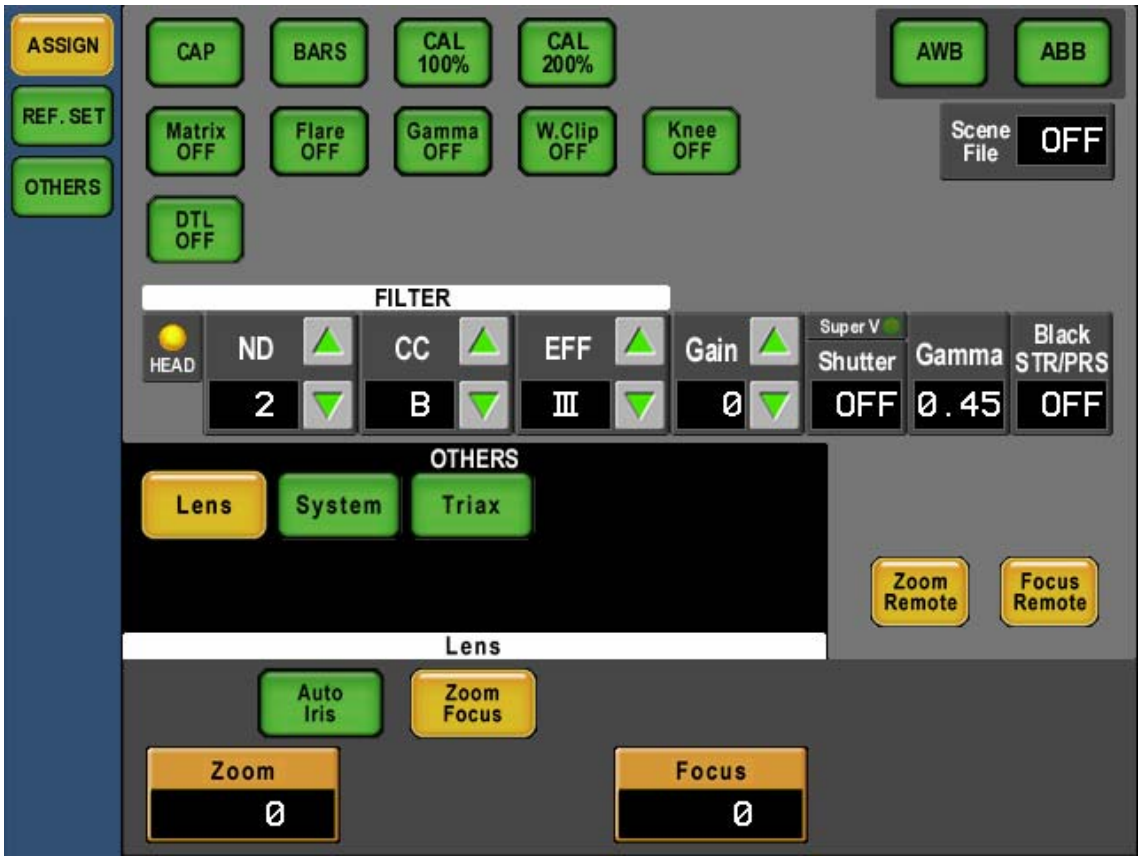


On the LCD screen,

- **Level REF.**
- **Color REF.**
- **AWB REF.**
- **ABB REF.**

switches are descriptions of reference setting. Push each of switch in a couple of second to select each description and push start switch. Set "Diascope" ON/OFF, if necessary.
In case of reference setting failure, Start switch will blink. The failure status can be released with one more pushing to Start switch. By pushing Start switch at the Auto Setup execution, reference Setup processing can be cancelled.

3-3-3.OTHERS


ASSIGN
REF. SET
OTHERS
CAP
BARS
CAL 100%
CAL 200%
AWB
ABB
Matrix OFF
Flare OFF
Gamma OFF
W.Clip OFF
Knee OFF
Scene File
OFF
DTL OFF
FILTER
HEAD
ND
2
CC
B
EFF
III
Gain
0
Super V
Shutter
OFF
Gamma
0.45
Black STR/PRS
OFF
OTHERS
Lens
System
Triax
Zoom Remote
Focus Remote
Lens
Auto Iris
Zoom Focus
Zoom
0
Focus
0

OTHERS Page

Description	Sub-description	ON/OFF, Function	Control subject
Lens	Auto Iris	Peak Ratio	Iris Peak Ration Control
		Level	Iris Level Control
		Iris Set Mode	Iris Set Mode ON/OFF
	Zoom Focus	Zoom	Zoom Control
		Focus	Focus Control
		Zoom Remote	Zoom Remote ON/OFF
		Focus Remote	Focus Remote ON/OFF
System	GL..Phase	SC Course	SC Phase Coarse Control
		SC Fine	SC Phase Fine Control
		D.CONV.H Phase	Down Converter H Phase Hue Control
		H Phase	H Phase Hue Control
	ENC	Gain	ENC Gain Control
		Chroma	Chroma Level Control
		Comb	Comb Filter Control
	Down CONV.	Down CONV.	Down Converter Aspect Control
Triax	Ta Level	Y/Cb/Cr	Triax Level Control
		Head Bars	Head Color Bar ON/OFF
	BS Level	Red/Green/Blue	BS Level Control
		Head Bars	Head Color Bar ON/OFF
	BS BLK Set	Red/Green/Blue	BS Black Set Control
		Head Bars	Head Color Bar ON/OFF

Gray shadowed items are controlled by Rotary Encoder.

3.4 FILE

Refer following summary of "7.Firmware Update".

3.5 SYSTEM

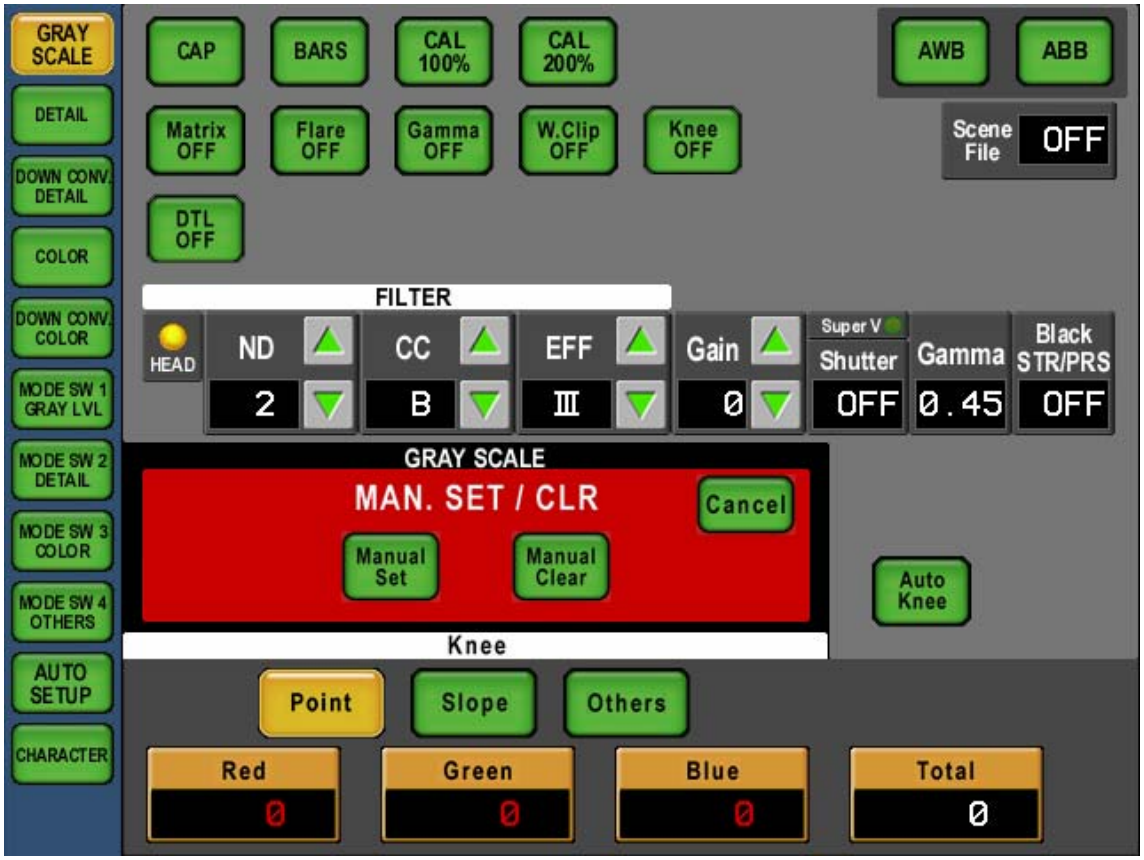
Doesn't work yet.

4. MANUAL SET / MANUAL CLR

The parameter of which set by rotary encoder on MCP(MANUAL SET) can be saved. And the set parameter can be cleared to target value of Auto Setup or MANUAL SET value.(MANUAL CLR)

4.1 MANUAL SET / MANUAL CLR by LCD Menu

At the LCD Menu page of which rotary encoder activated, click a parameter to be changed.



Turn the parameter to red, MANUAL SET / MANUAL CLR page will be overlaid. Click each of parameter to be done with MANUAL SET or MANUAL CLR. To identify the selection with turning parameter to red. To push the parameter(red number) again to release the setting.

Once selecting the description, push MANUAL SET(Need pushing a couple of seconds) or MANUAL CLR for execution. After execution, setting page will close to back previous page. By pushing Cancel switch, setup page can be cancelled.

5. CAMERA SELECT FUNCTION

This is a unique feature of MCP and Camera Select related control is very effective. Existing MCP has also Camera Select function, but it is more sophisticated for MCP-200. Camera Select Function is available with traditional CSU connection and new Network connection.

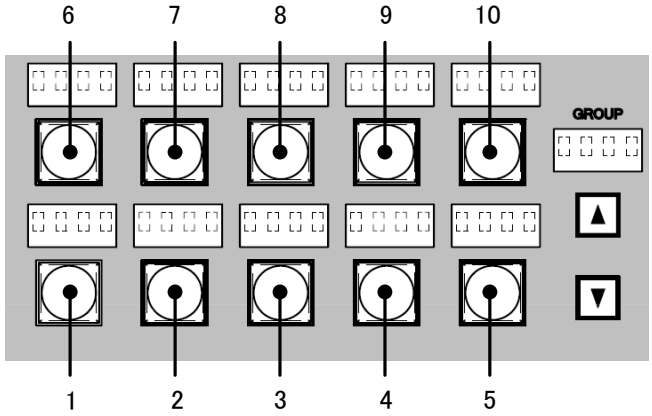
5.1 Camera Select at Ikegami Command Connection

To use MCP under Ikegami Command Connection, MCP can be connected to BS/CCU directly with Ikegami CP Cable or connected to CSU with Ikegami MCP Cable. In case of connecting to BS/CCU, Camera Select Function will not work. Camera Select Switch works as the Enable Switch.

In case of connecting to CSU, Camera Select Switch of 1 to 8 will reflect to CSU1 of 1 to 8 and Camera Select Switch of 9 to 10 will reflect to CSU2 of 1 to 2.

Possible to assign program camera number to each camera (Group assignment is not available yet.)

Camera Select Switch Portion

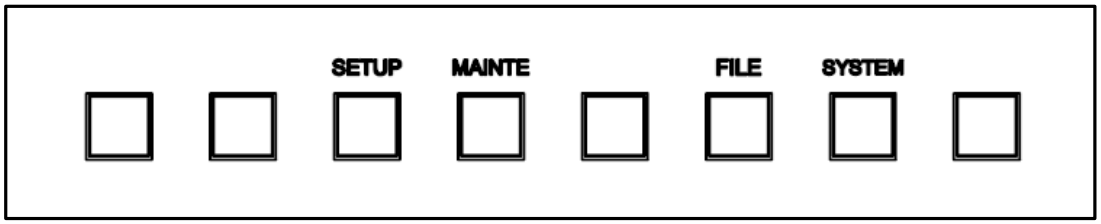


5.2 Camera Select at Network Connection

Network operation is available with connecting to CP HUB with Ikegami CP Cable. Network ID of camera can be assigned to each of Camera Select switch. It is necessary to set network ID to network capable units. And connecting non-network capable units to network via BS-HUB, it is necessary to set network ID on BS-HUB for each unit. And program camera number can be set to each unit.

6. MEMORY CARD OPERATION

The setup descriptions of camera, Camera Data File, Auto Setup Reference File, Scene File and Snap Shot file, can be saved in SD Memory Card.
And saved above mentioned data files can be copied to the camera. And data of multiple cameras can be saved and read out with one memory card to be convenient for the daily operation.
In case of memory card operation, insert memory card to the slot and push File switch of function switch on top side.



And also, by using memory card, firmware version up is available. (Refer following summary of "8.Firmware Version Up")

6.1 Type of Memory Card

Adopting SD Memory Card of which is used for Digital Camera etc.. Capacity should be 32MB to 512MB. *Doesn't support miniSD Card with miniSD Card adaptor.

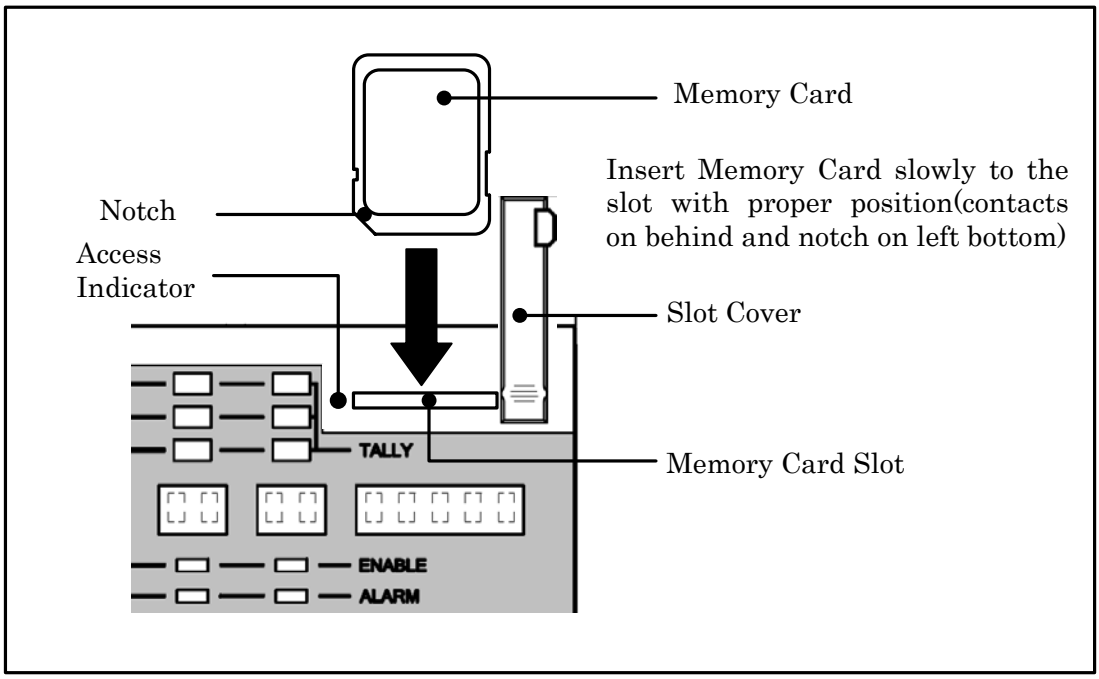
Note SD Memory Card should be formatted by SD Memory Card Compliant format. Some of PC OS format standard doesn't support SD Memory Card Format. In that case, SD Card doesn't work properly with MCP-200

.

6.2 Insert/Extract of Memory Card

To use memory card, pull left end of slot cover and turn 90 degree to clockwise. Insert Memory Card slowly to the slot with proper position (contacts on behind and notch on left bottom) until hearing click sound.

To extract Memory Card, push calmly the top of the Card until hearing click sound. Pull the Card slowly after beep extract sensing buzzer. After Memory Card operation, put the slot cover for the dust proof.



Note Do not extract Memory Card when access indicator on the slot lights or Saving/Loading data to/from Memory Card. Data or Card itself may be damaged.

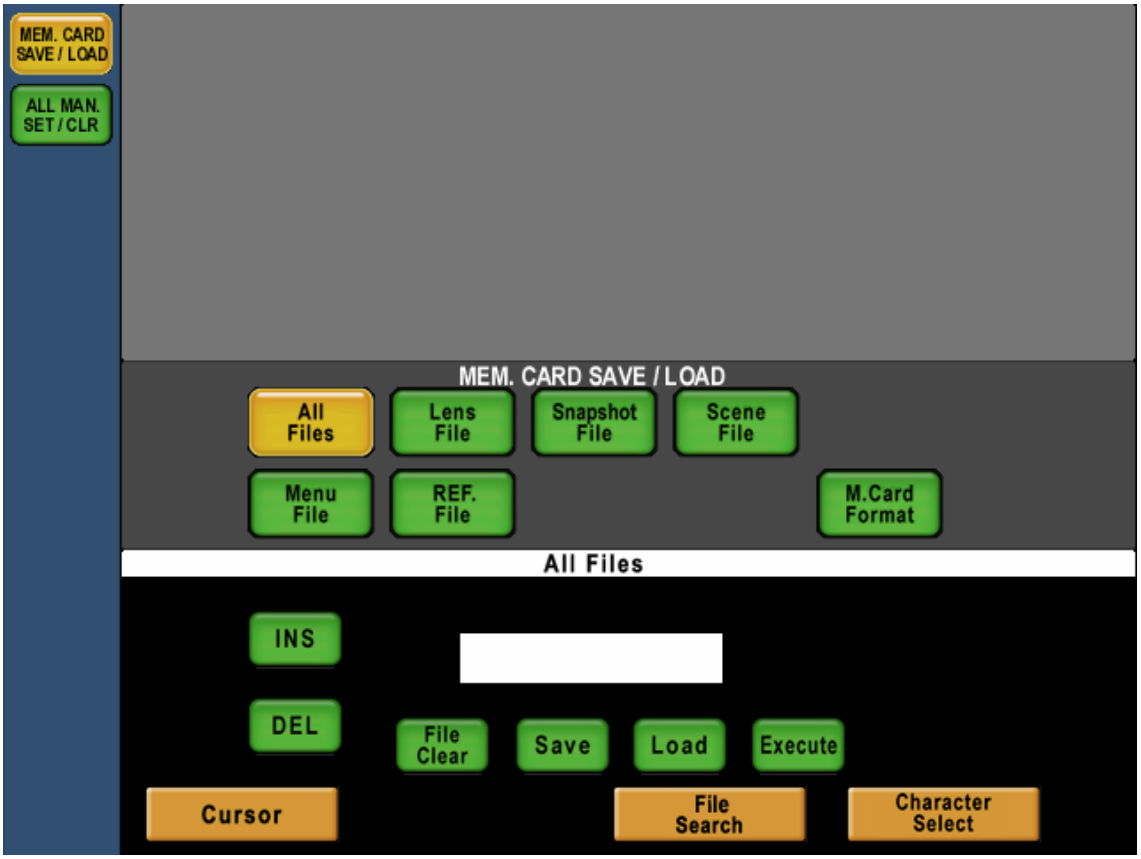
Annex Attention! In case of BUZZER sets "OFF", extract sensing buzzer will not beep.

6.3 Format and Name Change of Memory Card

Re-format is necessary before using if the Card was formatted with un-compliant format.

1. Insert Memory Card slowly to the slot with proper position(contacts on behind and notch on left bottom)

2. Push FILE Switch on top side of LCD. Push MEM.CARD SAVE/LOAD Switch on LCD menu.
   The name of Memory Card comes up on LCD display as bellow.
3. Push a couple of second M.Card Format switch.
   LCD display will become Card Name Input screen and the cursor appears to input position.
4. Input Card Name.
   Refer "6.4 Memory Card Name / File Name Operation" for input procedure of Card Name.



5. Push Execute switch and message window will come up.
6. Push Yes switch to start formatting. Buzzer will beep after format completing. Push No switch to cancel formatting.

＜Change of Card Name＞

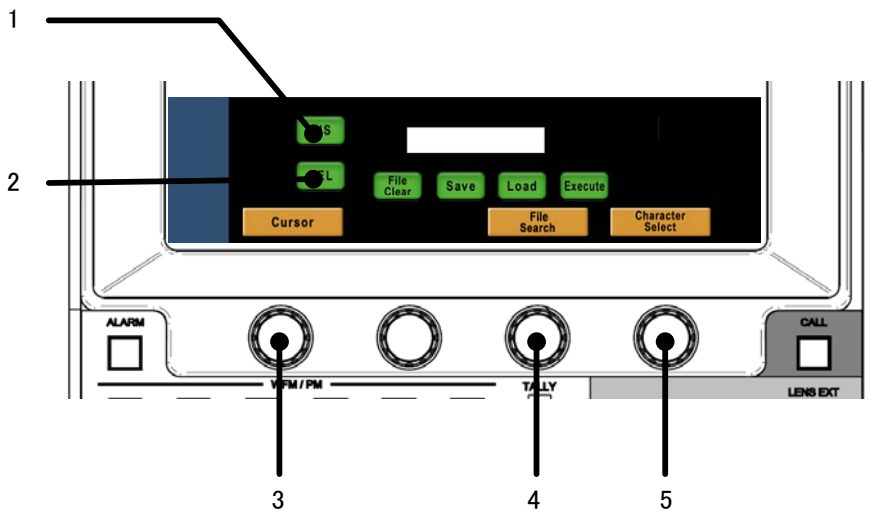
Not available yet for Card Name Change.

6.4 Memory Card Name / File Name Operation

Naming to Memory Card or Files is available.
11 letters for Memory Card naming and 8 letters and 3 letters of extension for File naming are available.
Below alphabets, numerals and symbols can be used:
Characters: ABCDEFGHIJKLMNOPQRSTUVWXYZ!#$%&'( )+-=@[ ]^_{}0123456789
If no File Name is input, the File Name is given automatically. Naming rule shows below.

1） **In case of Network Connection, CSU Connection**
Named by camera number of connected cameras.

2） **In case of BS/CCU Connection**
NONAME

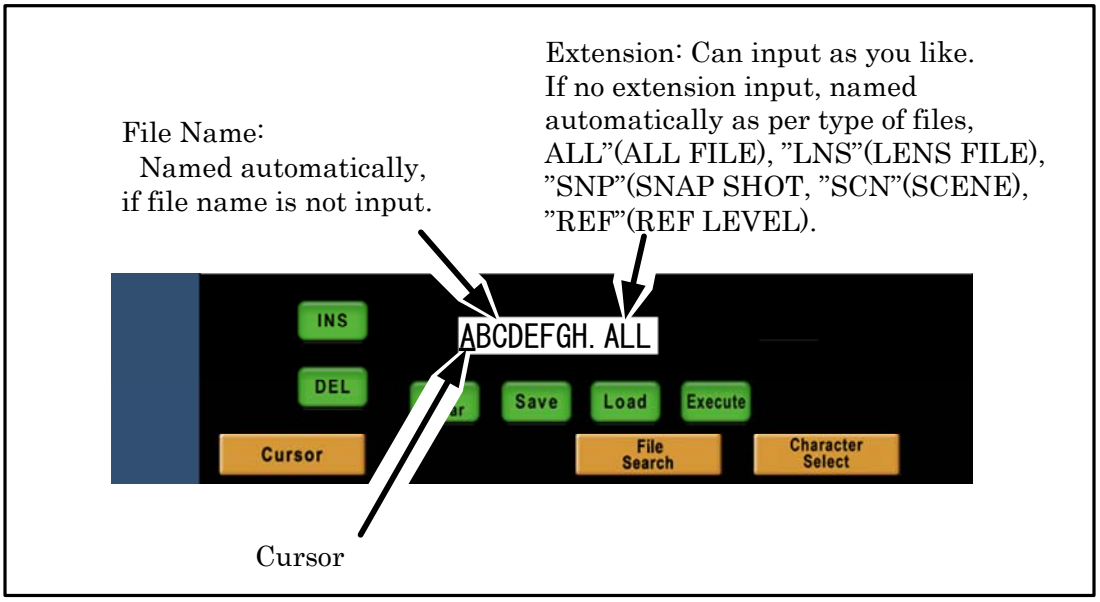


1. Insert Switch	: Insert one letter of (_) to letters.
2. Delete Switch	: Delete one letter. Or, keep pushing to delete all input letters. (Extension will not delete for file name input)
3. Cursor Control	: Move Cursor.
4. File Search Control	: Search the File.
5. Character Selection Control	: To select input letters from Alphabets, Numerals or Symbols.

6.5 File Data Save to Memory Card

1. Insert Memory Card to the slot.
2. Push FILE switch on the top of panel. And push MEM. CARD SAVE/LOAD switch of LCD function switch.

3. Select and push the switch for the type of data to be saved.
   ・In case of all Data File, push ALL Files switch.
   ・In case of Lens File, push Lens File Switch.
   ・In case of Snap Shot File, push Snapshot File switch.
   ・In case of Scene File, push Scene File switch.
   ・In case of Menu File, push Menu File switch.
   ・In case of Reference Level File, push REF. File switch.



4. Input File Name by using switches on LCD and rotary encoder.
5. Turn Save switch to "ON".
6. Push Execute switch.
   Execute switch lights and File Date will be saved, Buzzer will beep at the completing.

Annex If the same file name is existed, below warning message will come up. Push "Yes" to overwrite. Or, push "No" to cancel saving.

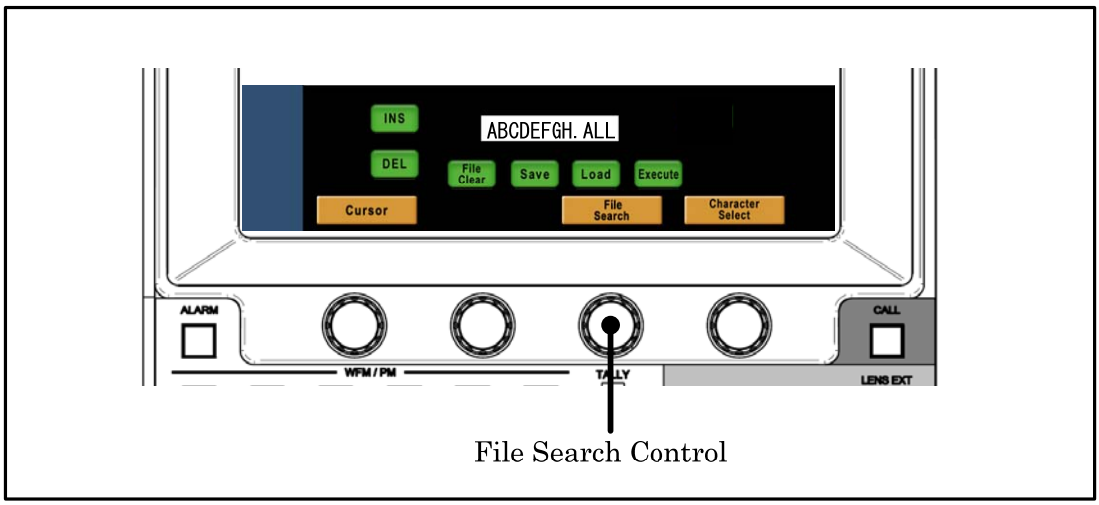
6.6 File Data Loading from Memory Card

1. Insert Memory Card to the slot
2. Push FILE Switch on top of the panel. Push MEM.CARD SAVE/LOAD switch on LCD function switch.

3. Select each of switches to be necessary.
   - In case of all Data File, push ALL Files switch.
   - In case of Lens File, push Lens File Switch.
   - In case of Snap Shot File, push Snapshot File switch.
   - In case of Scene File, push Scene File switch.
   - In case of Menu File, push Menu File switch.
   - In case of Reference Level File, push REF. File switch.

4. Rotate for File Search Control Knob to choose the needed file. Or, input new File Name buy using LCD switch, Cursor Control Knob and Character Selection Control select Knob.

Note By using search function, needed file can be found. For example, if initial of File Name “AB” is input and rotate File Search Control Knob, search function activates to find the file of which has initial “AB”. By similar way, File Search is available with Extension.



Note Push Name of File Data to indicate information of File Data to recognize sort of data file. And if CONTROL/SELECT Knob is rotated, following data will be indicated continuously.

5. Turn Load switch to “ON”.
6. Push Execute switch.
   Execute switch lights and File Data loading starts. Buzzer will beep at the competing.

Annex If file type is different, needed file can not be read out. For instance, Lens Data file can not be loaded for SNAP SHOT data and below warning will come up.

If "YES" is pushed, below warning will come up. It is unable to load in this case. Push “OK” to cancel.

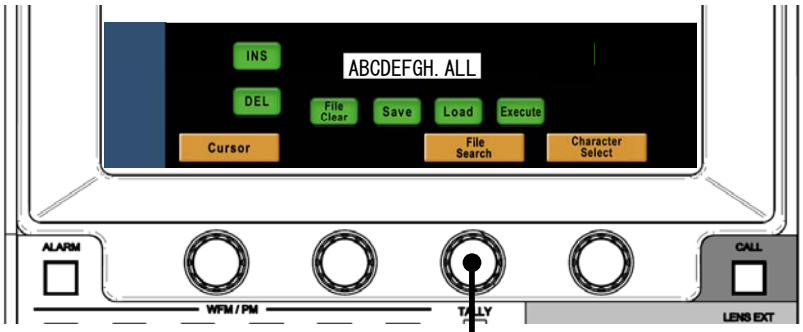
The File Data saved as ALL DATA can be loaded for another file type.
(Below example shows that an All DAT is read out for SNAP SHOT data)
Push “YES” switch in below window.

6.7 Delete of File Data from Memory Card

Delete of Data File from Memory Card is done with following procedure.
The deleted File Data can not be retrieved. Then attention to delete Data Files.

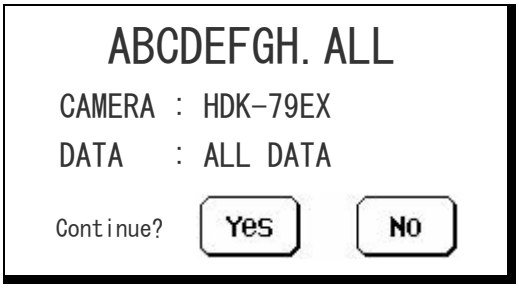
1. Insert Memory Card to the slot.
2. Push File switch on the top of panel. Push MEM.CARD SAVE/LOAD switch on LCD screen.

3. Select each of switches to be deleted.
   - In case of all Data File, push ALL Files switch.
   - In case of Lens File, push Lens File Switch.
   - In case of Snap Shot File, push Snapshot File switch.
   - In case of Scene File, push Scene File switch.
   - In case of Menu File, push Menu File switch.
   - In case of Reference Level File, push REF. File switch.
4. Rotate for File Search Control Knob to choose the needed file. Or, input new File Name buy using LCD switch, Cursor Control Knob and Character Selection Control select Knob.



File Search Control

5. Turn FileClear Switch to "ON".
6. Push Execute switch.



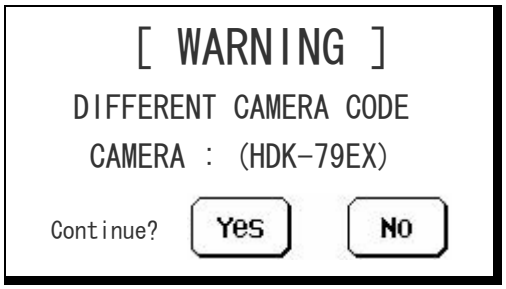
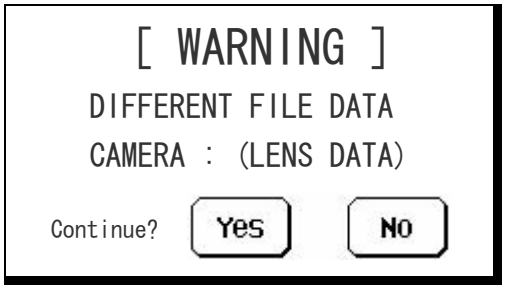
7. Push "YES" to delete File Data. Or, push “NO” to cancel deleting.

Annex If type of file data is different, the file will be deleted.

6.8 Message Indication

Following message window will come up at the Memory Card Operation of save, load or delete. Find details as below:

[ERROR] Window will be released by pushing "OK".

Message	Description
[WARNING] 	Same File Name is already existed in the Memory Card. Push “YES” switch to overwrite.
	At the data load, this message will come up when the file was created for different model of camera. Push “Yes” to read out.
	At the data load, this message will come up when the different type of data is selected.

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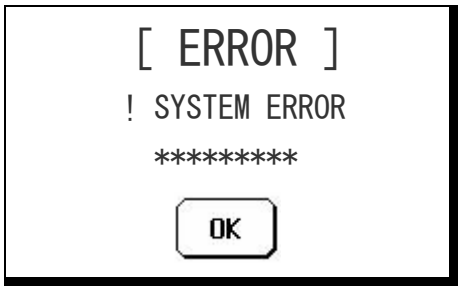
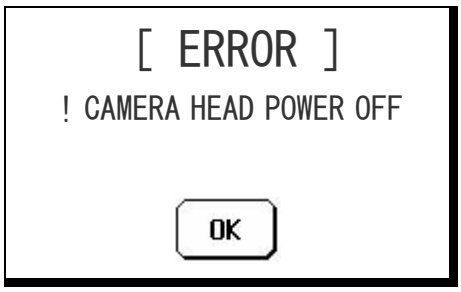
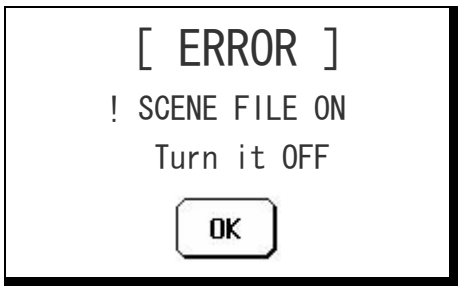
2／4

Message	Description
[ERROR] 	Data load is unable because File Type of Data is different.
	No file is existed in Memory Card when File data is loading.
	Any system error happens in Memory Card system.
	Type of File Data is different.

Message	Description
[ERROR] 	No proper data is not existed at the data load.
	Data File is broken at the data load.
	File data can not be created at the data save.
	File Name of data can not be supported.

Message	Description
[ERROR] 	Any problem happed in file data processing of the Camera System. · "COMMAND TROUBLE" : Any problem in communication processing path. · "CAMERA DATA NOT FOUND" : Needed data is not existed in Camera Head. · "FILE CLEAR" : Existing File Data is deleted by any failure at File Data overwriting.
	Write Protect Sticker is attached on Memory Card at Data Save/Load.
	Camera Head Power OFF at Data Save/Load.
	Scene File is ON at Data Save/Load. Turn Scene File OFF before Data Save/Load.

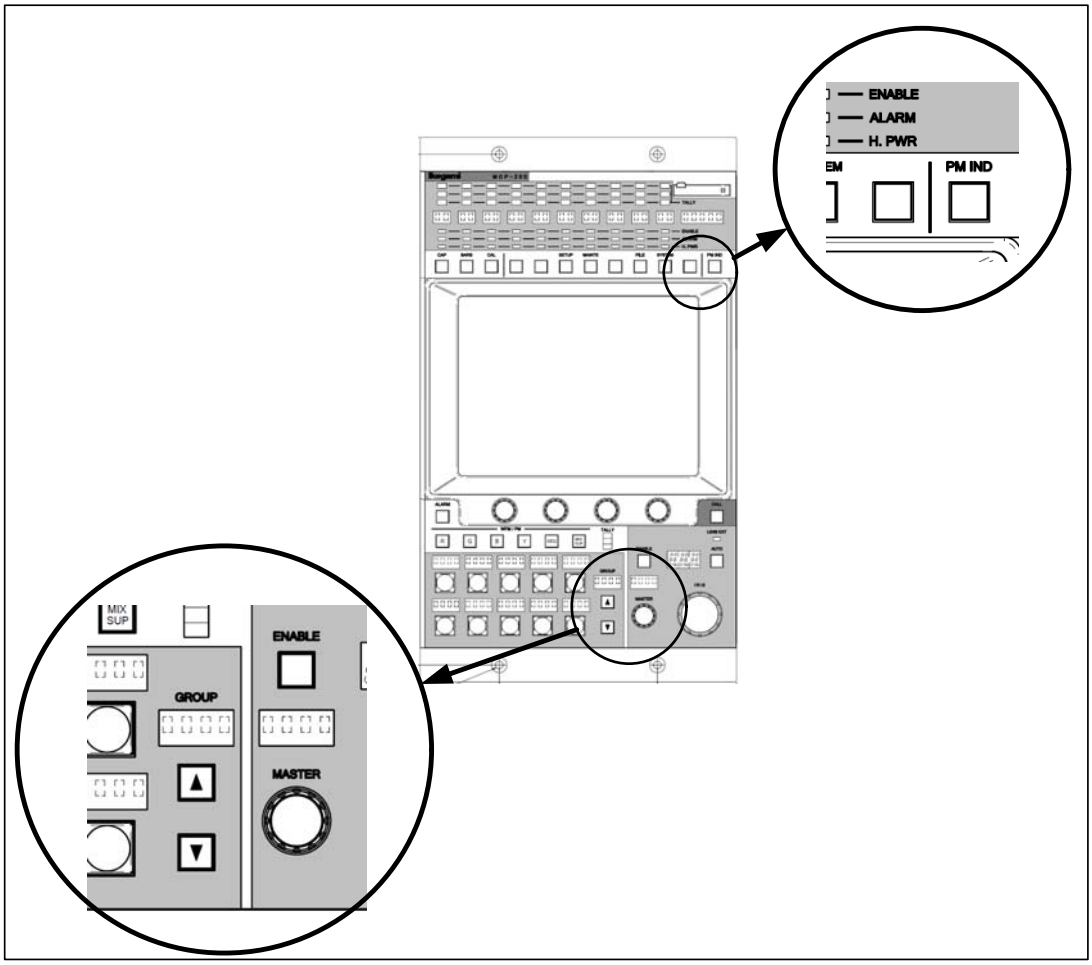
7. FIRMWARE UPDATE

By using SD Memory Card, Firmware of MCP-200 can be updated.

7.1 Update Procedure

1）Procedure 1

Push PM IND Switch on top side of panel in ten seconds.



Below update program will come up.

```
  *** PROGRAM UPDATE ***

ROM VERSION STR1234V00
     CHECK SUM:1234




      COPYRIGHT(c) 2006
IKEGAMI TUSHINKI CO.LTD
```

Indication will change a few seconds later.

```
  *** PROGRAM UPDATE ***

INSERT MEMORY CARD
FILE      :
MODEL     :
PROG NO   :
CHK SUM   :
```

2）Procedure 2

Insert SD Memory Card which includes new Firmware (Update File).
The following indication will come up after loading update file.
(Below File Name and PROG No. is just sample.)

```
  ＊＊＊ PROGRAM UPDATE ＊＊＊

MENU SEL:FILE SELECT
FILE      :TEST_FILE.RDF
MODEL     :MCP-200
PROG NO   :JPN_SAMPLE
CHK SUM   :----

   SELECT:▲▼ EXECUTE:□
```

If PM IND switch is pushed in ten seconds at normal operating condition with SD Card inserted, this window will come up, too.

3）Procedure 3

Select Update File by UP/DOWN switch on Camera Select Switch portion.
Enter the selected Update File by ENABLE switch on PED, IRIS Control portion.

```
  ＊＊＊ PROGRAM UPDATE ＊＊＊

MENU SEL:FILE SELECT
FILE      :TEST_FILE.RDF
MODEL     :MCP-200
PROG NO   :JPN_SAMPLE
CHK SUM   :----

   SELECT:▲▼ EXECUTE:□
     PROGRAM UPDATE?
```

4）Procedure 4

Select update or cancel by UP/DOWN Switch on Camera Select portion.
Push ENABLE Switch on PED, IRIS Control portion to execute or cancel the update.
In case of cancel, it will back to Procedure 3.

5）Procedure 5

At the execution of update, the data is transferred from SD Memory Card to internal Buffer. At the file transfer, below window will come up and bar graph indicator shows transfer status.

```
  *** PROGRAM UPDATE ***

MENU SEL:FILE SELECT
FILE      :TEST_FILE.RDF
MODEL     :MCP-200
PROG NO   :JPN_SAMPLE
CHK SUM   :----

-------- CAUTION --------
DATA LOADING
******-----+-----------|
```

The program is overwritten automatically after finishing data transfer.
CHK SUM will be indicated to check updated data.

```
  *** PROGRAM UPDATE ***

MENU SEL:FILE SELECT
FILE      :TEST_FILE.RDF
MODEL     :MCP-200
PROG NO   :JPN_SAMPLE
CHK SUM   :1B3C

-------- CAUTION --------
PROGRAMING
******-----+-----------|
```

6） Procedure 6

After overwriting is finished, it will judge whether the program is updated correctly by checking CHK SUM comparison.

```
  ＊＊＊ PROGRAM UPDATE ＊＊＊

MENU SEL:FILE SELECT
FILE      :TEST_FILE.RDF
MODEL     :MCP－200
PROG NO   :JPN_SAMPLE
CHK SUM   :1B3C

                    CHECK:□
CHK SUM   :1B3C
    COMPLETE UPDATE OK
```

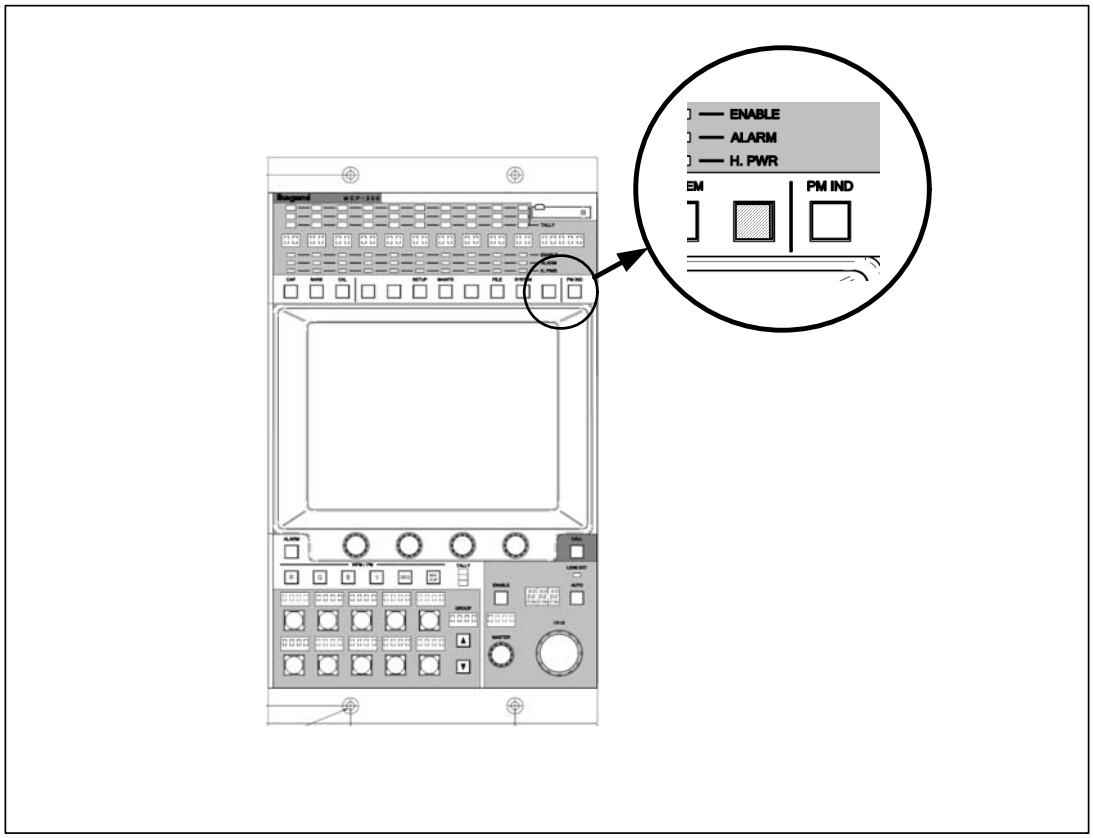
If overwriting is done correctly, OK indication will come up.

Push ENABLE SWITCH on PED, IRIS Control portion to close update program and boot up will start with updated firmware.

8. TROUBLE SHOOTING

8.1 Reset procedure

When the panel is in trouble or hangs up, Reset function is available.
Please push the second switch from the right on top portion(no named switch) in five seconds to reset. After starting Reset function, LCD, LED, and switch light turn off temporarily. Release the switch right after confirming reset function has started. MCP will reboot to standby for operation. Push again in five seconds to reset if reset function doesn't start.



If Reset function doesn't start after several attempt, power off the unit of supplying power to MCP.

9. SPECIFICATIONS

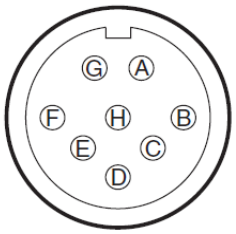
9.1 Rating and Performance

	Model with DC IN Connector	Model without DC IN Connector	Remarks
Power voltage	＋１１Ｖ～＋１６Ｖ	＋１１Ｖ～＋１３Ｖ	+12VDC (STANDARD)
Power consumption	１５W(STANDARD)		
Max cable length	(external power supply)		
Network Connection	３０ｍ（５０ｍ）	３０ｍ	CP CABLE
ICCP Connection	３０ｍ（１００ｍ）	３０ｍ	CP CABLE
	１０ｍ（３０ｍ）	１０ｍ	MCP CABLE
Operating temperature	０℃～＋４５℃		
Storage temperature	－２５℃～＋６０℃		
Ambient humidity	３０％～９０％ (No condensation)		
External dimensions (W／H／D)	２０４×３５４×８３．２mm		
Weight	Approx.２．４ｋｇ		

9.2 Connector Pin Function

1. COMMAND Connector

Receptacle



Insertion Side

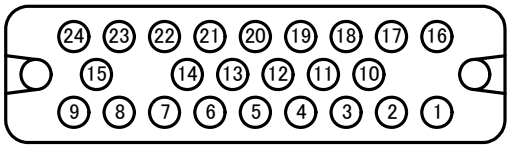
Connector for input and output control signals to connect with BS/CCU or CP HUB.

MCP Side : PRC05 - R8M
Cable Side : PRC90 - 199P9 - 8F
(8-pin female plug) or equivalent

Pin No	Name	Function	I/O	External Interface
A	HED(+)	Digital data input (+) BS/CCU –> MCP	IN	
	A	Digital data input/output (A) CP HUB <–> MCP	IN/OUT	
B	HED(–)	Digital data input (–) BS/CCU –> MCP	IN	
	B	Digital data input/output (B) CP HUB <–> MCP	IN/OUT	
C	HEC(+)	Digital data output (+) MCP –> BS/CCU	OUT	
D	HEC(–)	Digital data output (–) MCP –> BS/CCU	OUT	
E	+12V IN	DC + 12 V power supply	IN	
F	+12V RET	Ground for DC + 12 V power supply	OUT	
G	NC	----------		
H	NC	----------		

2. CSU Connector

Recepacle



Insertion side

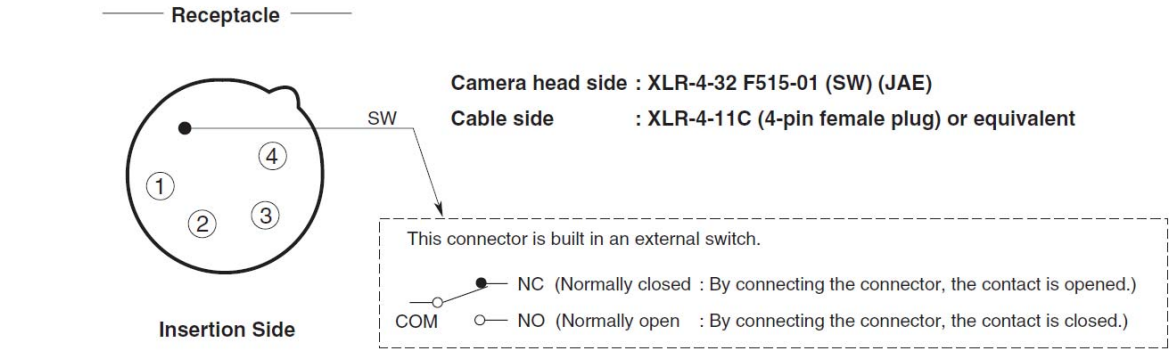
Connector for input and output control signals to connect with CSU

MCP Side : PW-1624BA(09)
Cable Side : S-1624A

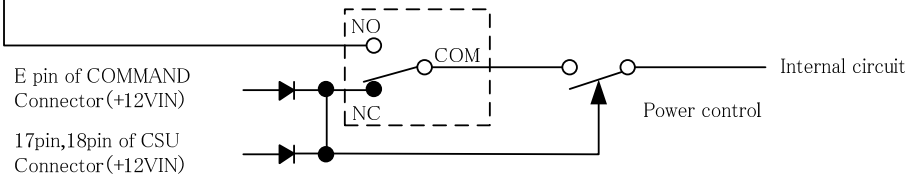
Pin No	Name	Function	I/O	External Interface
1	CSU SEL A V	CSU number select signal (VIDEO)	OUT	
2	CSU SEL B V	CSU number select signal (VIDEO)	OUT	
3	CSU SEL C V	CSU number select signal (VIDEO))	OUT	
4	CAM SEL A V	Camera number select signal (VIDEO)	OUT	
5	CAM SEL B V	Camera number select signal (VIDEO)	OUT	
6	CAM SEL C V	Camera number select signal (VIDEO)	OUT	
7	CSU SEL A C	CSU number select signal (COMMAND)	OUT	
8	CSU SEL B C	CSU number select signal (COMMAND)	OUT	
9	CSU SEL B C	CSU number select signal (COMMAND)	OUT	
10	CAM SEL A C	Camera number select signal (COMMAND)	OUT	
11	CAM SEL B C	Camera number select signal (COMMAND)	OUT	
12	CAM SEL C C	Camera number select signal (COMMAND)	OUT	
13	HED RX(+)	Digital data input (+) CSU -> MCP	IN	
14	HED RX(-)	Digital data input (-) CSU -> MCP	IN	
15	HEC TX(+)	Digital data input (+) MCP -> CSU	OUT	
16	HEC TX(-)	Digital data input (-) MCP -> CSU	OUT	
17	+12V IN	DC + 12 V power supply	IN	
18	+12V IN	DC + 12 V power supply	IN	
19	+12V RET	Ground for DC + 12 V power supply	OUT	
20	+12V RET	Ground for DC + 12 V power supply	OUT	
21	YC PARADE	YC PARADE signal output	OUT	
22	STAIR ON	ON/OFF control of STAIR signal output to WFM	OUT	
22	NC	---------		
23	NC	---------		
24	NC	---------		

3. DC IN Connector（only model with connector）

For external power supply to MCP (DC+12V). Used for long distance cable extension from BS/CCU or CSU, such as the case of power supply unavailable.



Pin No	Name	Function	I/O	External Interface
1	+12V RET	+12V input RET	OUT	
2	NC	———		
3	NC	———		
4	+12V IN	+12V input (11V to 16V)	IN	



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