LED 12-19 TFT +Plus+

High Brightness On-Camera Prompter Displays

Installation and Operation Manual

1. General Safety Summary

Please read and observe the following safety precautions to avoid personal injury and prevent damage to this product or any products connected to it. To avoid potential hazards, use this product only as specified.

Servicing should only be undertaken by skilled and qualified personnel.

For mains powered units: Use only the power cord specified for this product and certified for the country of use. This product is grounded through the grounding conductor of the power cord. To avoid electric shock, the grounding conductor MUST be connected to earth ground. Before making any other connections to the product, ensure that the product is properly grounded. Use only the fuse type and rating specified for this product.

For all units: Avoid exposed circuitry. Do not touch exposed connections and components when power is present. To avoid fire or shock hazard, observe all ratings and marking on the product. Use only the specified types of connectors with the product. Do not operate the product with covers or panels removed. Do not operate with suspected failures. If you suspect there is damage to the product, have it inspected by qualified service personnel. Provide proper ventilation. Operate the product only when it has been installed according to the manual's installation instructions as these are designed to provide adequate ventilation around the product. Do not operate the unit with the ventilation holes covered. Do not store or operate the product where it may be exposed to damage by coming into contact with other objects. Do not operate in wet or damp conditions. Do not operate in an explosive atmosphere. Keep product surfaces clean and dry.

2. Introduction to the LED 12-19 TFT +Plus+

Autoscript has 25 years of experience of providing TV facilities all around the world with the foremost line-up of prompting equipment. Building on this heritage we have introduced this innovative range of monitors with all the features needed to provide consistent performance and utmost reliability.

LED TFT +Plus+ monitors are available in a range of sizes from 12 to 19 inches and have High Brightness LED edge-lit screens for cool running and optimum picture quality. Features such as Eco +Plus+ power saving modes, built-in tally lights, and HD-SDI inputs mean that the LED TFT+Plus+ range will make the most of every production.

2.1. Features

- Low power consumption – cool running.
- Rugged all-metal case (no flimsy plastic).
- Eco +Plus+ feature saves power when no active video is present.
- LCM feature – preset Low Consumption Modes for use with camera utility power outlets.

- Built-in dimmable Tally Light with Opto Sensor input and repeat output (for driving ClockPlus etc.)

- Accessory DC power out socket for powering external ClockPlus etc.
- AC mains or 12V DC power in.
- HD-SDI input option available – can be retro-fitted.
- Instant access picture rotate switch.
- Front mounting bushes incorporated for easy mounting of TallyPlus or ClockPlus.
- Designed in the UK and built by the Prompting Professionals!

3. Specifications

3.1. Display

Backlight Technology	High Brightness LED
Screen Size	15.0 inch diagonal
Brightness	1500 cd/m2
Contrast Ratio	700:1
Resolution	1024 x 768 (XGA)
Display Area	304.13(H) x 228.10(V)mm
Viewing Angle	160°(H), 160°(V)

3.2. Input Signals

Input signals: Composite PAL/NTSC Video
VGA
HD-SDI (Option)

3.3. Power Consumption

DC 12V	3.1A (37.2W)
AC 100-240 V	47VA
HD-SDI Option	+ 0.2A (2.4W) @ 12V DC or + 2VA AC

3.4. Physical

Dimensions (excluding controls/connectors):
398 mm W x 64 mm H x 313 mm D

Weight: 4.15 kg

Temperature range: Operating: 5 to 40 degrees C
Storage: -20 to 60 degrees C

3.5. EMC Compatibility

This product is designed to meet the relevant requirements of the following standards:

Standard	Title	Limits
EN55022:1998 (+A1/A2)	Information technology equipment – Radio Disturbance characteristics. Limits and methods of measurement	Class A Emissions
EN55024:1998 (+A1/A2)	Information technology equipment – Immunity characteristics. Limits and methods of measurement	
EN61000-6-2:2001	Electromagnetic compatibility (EMC) Part 6-2: Generic standards – Immunity for industrial environments	
CFR 47 : 2004	Code of Federal Regulations: Pt 15 Subpart B – Radio Frequency Devices – Unintentional Radiators	Class A

4. Installation

4.1. General

Preparation for installing LED 12-19 TFT +Plus+ includes the following points:

- Removal of all packaging
- Checking of components for damage
- Comparison of components received with those on the delivery note
- Connection to the signal source and power supply
- Building into your system, bearing in mind technical and spatial aspects

4.2. Removing the Packaging and Checking Individual Parts

After unpacking all the delivered components, they should be checked for completeness and visually inspected for possible transit damage. If any deficiencies are found then please contact the supplier given on the delivery note. Have the delivery note number, serial number and a description of the deficiency to hand.

The original packaging should be kept for future reuse.

4.3 Installation – Points to note

When installing the LED 12-19 TFT +Plus+ the following points should be noted:

- The maximum operating ambient temperature of +40° must not be exceeded.
- There must be unimpeded free flow of air around the unit, and the ventilation holes must not be obstructed.
- Connection to the composite video input or HD-SDI input of the unit should always be made with screened 75Ω coaxial cable (irrespective of length). However, all cables degrade the signals passed through them and shorter lengths of cable will give better signal quality.
- The video cable screen should be connected to ground (earth) at both ends.
- Use only the power supply unit supplied with the unit, connected to a suitable mains power outlet with protective earth.
- EMC and safety: LED 12-19 TFT +Plus+ has been designed for building into a unit or system. The constructor or operator of the system is responsible for maintaining electromagnetic compatibility and safety according to the relevant local regulations.

5. Connectors and Controls

5.1. AC Power

NOTE! This connector must be used in conjunction with a 3-core grounded AC supply cable.
NOTE! Use only the specified type and rating of fuse!

Connector type: IEC plug with integral fuseholder and illuminated ON/OFF switch
Fuse type: 20mm Ceramic tube fuse rated at 2A 250V AC
Quick Acting, High Breaking Capacity (H)
e.g. Schurter part no. 0001.1007
Mating connector: IEC socket

5.2. DC Power

Use a well regulated 12V DC power source capable of supplying at least 5A.

Connector type: 4 pin XLR plug
Mating connector: 4 pin XLR socket

Pin	Signal
1	GROUND (connected to monitor chassis)
2	Tally Logic Input (>2.5V DC in = Tally Light ON, <2V DC in = Tally Light OFF
4	+12V DC

5.3. Composite Video In and Out

Connector type: 75R BNC Socket
Mating connector: 75R BNC Plug

Pin	Signal
Centre	Composite Video In (PAL or NTSC)
Outer	GROUND

5.4. Loop/Terminate Slide Switch

Function: Provides a switchable 75R termination to the Composite video input, allowing the signal to either terminate at the monitor or be looped out to another piece of equipment such as the Autoscript +ClockPlus+.

5.5. Opto Sensor Input

Function: Allows an external opto sensor (available as an accessory from Autoscript) to cause the built-in Tally Light in the monitor to glow red. The external sensor is typically attached by Velcro® to the camera tally light and allows the LED 15 TFT +Plus+ to mimic the operation of the camera tally.

Other ways of triggering the Tally Light include connecting a contact closure (grounding loop) to the OPTO SENSOR socket, or applying a positive logic voltage to the TALLY LOGIC input on pin 2 of the DC Power Input connector.

Sensor Type: Light Dependent resistor, 20k Ω at 10 Lux, 5K Ω at 100 lux OR (grounding) contact closure
High illumination or contact closure = TALLY LIGHT ON,
Low illumination or contact open = TALLY LIGHT OFF

Connector type: 3.5mm mono jack socket
Mating connector: 3.5mm mono jack plug

Pin	Signal
TIP	HOT
SLEEVE	GROUND

5.6. Tally Repeat Out

Function: Open collector output giving contact closure to ground when the internal Tally Light is ON. Intended to be used to operate an external tally device such as the Autoscript +ClockPlus+ by using a 3.5mm jack to jack lead to connect the Repeat Out of the monitor to the Opto Input of the external Tally device.

Connector type: 3.5mm mono jack socket
Mating connector: 3.5mm mono jack plug

Pin	Signal
TIP	HOT
SLEEVE	GROUND

5.7. Accessory DC Power Out

Function: Provides a 12V DC supply to operate external accessories such as the Autoscript +TallyPlus+. Fused internally with a resettable fuse.
Connector type: 3.5mm mono jack socket

Pin	Signal
TIP	+12V DC
SLEEVE	GROUND

5.8. VGA In

Function: Allows a PC VGA type signal to be displayed on the monitor.
Connector type: 15 pin High Density D socket
Pin connections conform to the VESA VGA standard.

5.9. HD-SDI In and Out

Function: The optional Hi-Definition - Serial Digital Interface adaptor enables the Autoscript LED 15 TFT +Plus+ monitor to support single HD-SDI connections, thus providing a economic alternative to expensive external adaptor devices. Fully compliant with SMPTE 259M-C and SMPTE 292M standards.

Connector type: 75R BNC Socket
Mating connector: 75R BNC Plug

Pin	Signal
Centre	HD-SDI In
Outer	GROUND

6. Operation

6.1. Control Panel

The following description covers the operation of the control buttons on the right hand side panel of the monitor. The buttons are legended to show their function, and the legends are back-illuminated so that they can be easily identified in a dimly lit studio environment. There are two levels of brightness that can be set through the SETUP menu, one is normally set to be dimly visible when the buttons are not being used (but can be set to totally extinguish the illumination), the other is normally set brighter so that the legends can easily be read when the buttons are in use. Switching between the modes is automatic; when a button is pressed after a period of inactivity the brightness goes to the ACTIVE brighter level, a few seconds after the last button press the brightness reverts to the INACTIVE dimmed setting.

The buttons are laid out in four functional groups, from left to right on the panel these are as follows:

6.1.1. Backlight Control

A group of four buttons and one bi-colour (red/green) LED associated with BACKLIGHT control functions.

The DIM and CUT buttons select power saving modes that come into effect when there has been no picture activity for a predetermined period. When one of the modes is selected the illumination of the button associated with that mode changes to green, and when the mode becomes active after the inactivity time-out period then the LED between the two switches also changes colour to green. The mode may be cancelled by pressing the mode key again.

	NO DIM OR CUT SELECTED	**DIM SELECTED, VIDEO ACTIVE**	**CUT SELECTED, VIDEO ACTIVE**	**DIM SELECTED, ACTIVITY TIMEOUT**	**CUT SELECTED, ACTIVITY TIMEOUT**
DIM SWITCH	RED	GREEN	RED	GREEN	RED
SLEEP LED	RED	RED	RED	GREEN	GREEN
CUT SWITCH	RED	RED	GREEN	RED	GREEN
BACKLIGHT	NORMAL	NORMAL	NORMAL	DIM	CUT

The two arrow keys in the Backlight Control group increase (UP arrow) or decrease (DOWN arrow) the normal operating backlight brightness.

6.1.2. Direct Access Functions

Two buttons for direct access to INPUT SELECTION and PICTURE ROTATION. Pressing the INPUT SELECTION button steps to the next available input. Pressing the PICTURE ROTATION button steps through all four combinations of horizontal and vertical scanning directions, allowing the correct picture orientation for direct or mirror viewing to be set easily and quickly without having to go into any of the menus.

6.1.3. Setup

A button to invoke the on-screen engineering SETUP menu.

6.1.4. Menu keys

A group of 5 buttons in a diamond pattern for menu navigation.

MENU
Turns OSD (On-Screen-Display) menus ON or OFF
Goes back to the previous menu page

DOWN ARROW
Moves the selector to the next function

UP ARROW
Moves the selector to the previous function

RIGHT ARROW (+)
Increases the OSD parameter value
Goes into a sub menu from a higher menu
Confirms selection of an OSD function

LEFT ARROW (-)
Decrease the OSD parameter value

6.2. Setup Menu Operation

The complete menu structures for the User Setup menus are shown below; sub-menus (entered by pressing the RIGHT ARROW key) are shown indented. Where there is a variable parameter the maximum and minimum limits are shown either side of the current value. The control range of some parameters is limited to prevent erratic operation.

6.2.1. User Monitor Setup Menu:

This is accessed by pressing the SETUP key, and navigated using the MENU and four ARROW keys.

Picture Size
Full Size
Mid Size
Tally Setup
Tally Brightness
MIN: 0 << XX >> 31 :MAX
Opto Sensitivity
MIN: 0 << XX >> 31 :MAX
VITally Number
MIN: 1 << XX >> 16 :MAX
Eco +Plus+ Setup
Maximum Power Setting
LOW
MID
FULL
Eco +Plus+ Dim Level
MIN: 5 << XX >> 63 :MAX
Eco +Plus+ Delay
1 min
3 min
10 min
Switch Brightness
In-Use setting
MIN: 2 << XX >> 31 :MAX
Dimmed Setting
MIN: 0 << XX >> 31 :MAX

6.2.2. Monitor Setup – Advanced Menu:

This may be accessed in two ways; either by pressing all four ARROW keys simultaneously, or by pressing the SETUP key for 2 seconds whilst turning the power to the monitor ON. The menu is navigated using the MENU and four ARROW keys.

Picture Size
Full Size
Mid Size
Tally Setup
Tally Brightness
MIN: 0 << XX >> 31 :MAX
Opto Sensitivity
MIN: 0 << XX >> 31 :MAX
VITally Number
MIN: 1 << XX >> 16 :MAX
Eco +Plus+ Setup
Maximum Power Setting
LOW
MID
FULL
Eco +Plus+ Dim Level
MIN: 5 << XX >> 63 :MAX
Eco +Plus+ Delay
1 min
3 min
10 min
Activity Detect Setup
PAL Window Setup
Window Start Line
MIN: 50 << XX >> 230 :MAX
Window Length
MIN: 1 << XX >> 205 :MAX
NTSC window Setup
Window Start Line
MIN: 46 << XX >> 210 :MAX
Window Length
MIN: 1 << XX >> 184 :MAX
Detection Method
Digital Only
Low Power Setting
MIN: 5 << XX >> 32 :MAX
Mid Power Setting
MIN: 16 << XX >> 48 :MAX
Switch Brightness
In-Use setting
MIN: 2 << XX >> 31 :MAX
Dimmed Setting
MIN: 0 << XX >> 31 :MAX
Over-Temp Options
MIN: 5 << XX >> 25 :MAX
Version
Software Version
AS217 Vx.y.z
Factory Reset
NO
YES

***

6.2.3. User Monitor Setup Menu: Functional Description

6.2.3.1. Picture Size

Allows either the full screen size to be used, or a reduced picture size for close reading of prompt text.

6.2.3.2. Tally Setup

Provides control over the brightness of the built-in red Tally Light on the front of the monitor, and allows the sensitivity of the Opto Sensor input to be adjusted for differing types of sensor. The Vitally feature will allow for future implementation of the Autoscript Vertical Interval Tally signalling system.

6.2.3.3. Eco +Plus+ Setup

This menu option provides control over the various power saving features incorporated in the monitor.

Maximum Power Setting: This has three settings, LOW, MID and FULL. FULL allows the monitor to operate up to its maximum brightness, however, in certain situations it may be desirable to restrict the maximum brightness because of the studio operational environment, or to limit the power drawn by the monitor. Two restricted ranges, MID and LOW, can be selected, and there are additional menu options in the ADVANCED SETUP menu which allow the maximum within these to be user set.

Eco +Plus+ Dim Level: If DIM is selected by pressing the button on the side panel (the DIM key illumination changes from RED to GREEN when the ECO +Plus+ DIM mode is selected), and if the monitor does not detect any video activity for a period of time, then the screen brightness will dim to save power and prolong the life of the LCD panel LED lighting. The Eco +Plus+ Dim Level menu option allows the dimmed brightness level to be set by the user.

If CUT is selected by pressing the button on the side panel (the CUT key illumination changes from RED to GREEN when the ECO +Plus+ CUT mode is selected), and if the monitor does not detect any video activity for a period of time, then the screen illumination is turned off completely.

Eco +Plus+ Delay: Sets the time delay period that must pass after the last video activity was detected before the monitor will DIM or CUT (if selected) the screen brightness.

Activity Detect Setup: Video activity in the ECO +Plus+ modes is detected within a “window” on the active screen area. The start of the window is measured in TV lines from the start of the TV field,and the height is also measured in TV lines. The Window Setup menus allow the numbers of lines to be adjusted.

Low Power Setting: Sets the maximum brightness/power in the LOW range of Power Setting.

Mid Power Setting: Sets the maximum brightness/power in the MID range of Power Setting.

6.2.3.4. Switch Brightness

In-Use setting: Sets the brightness of the illumination of the switch legends during a period of operation of the switches.

Dimmed setting: Sets the brightness of the illumination of the switch legends whilst no operation of the switches Is taking place. This may be set to zero (illumination off).

6.2.3.5. Over Temp Options

In the unlikely event of the internal monitor temperature rising beyond acceptable limits the internal temperature sensor circuitry will trigger a reduction in the monitor brightness to reduce the power consumption and lower the internal heat dissipation. This menu option allows the brightness in this mode to be set by the user. Once the temperature has dropped to an acceptable level the full brightness range will be automatically restored.

6.2.3.6. Version

Displays the version of software loaded into the main monitor control processor.

6.2.3.7. Factory Reset

If selected this will reset all the menu parameters to their factory default setting. This does not affect the LCD display driver card settings. The screen briefly displays the message, “*** FACTORY RESET – DONE! ***” as confirmation that a reset has taken place.

6.3. LCD Parameters Menu

This is accessed by pressing the MENU key, and navigated using the MENU and four ARROW keys.

Picture :

Volume### — Increase/decrease volume level, total: 100 steps

Brightness — Increase/decrease panel brightness level, total: 100 steps

Contrast — Increase/decrease panel contrast level, total: 100 steps

Saturation — Increase/decrease saturation, total: 100 steps

Hue ** — Increase/decrease Hue level, total: 100 steps

Sharpness* — Increase/decrease sharpness, total: 30 steps

Position##

Move the image position upward

Move the image position downward

Move the image position to the left

Move the image position to the right

Backlight — Backlight brightness adjustment (Functions when light detector sets OFF)

Aspect / Size ▸

- Fill Screen : Enable full screen expansion for lower resolution Image
- Fill to Aspect Ratio: Enable fill screen expansion for lower resolution image according to aspect ratio
- 4 : 3 : scaling format in 4:3
- 16 : 9 : scaling format in 16:9
- 16 : 10 : scaling format in 16:10
- 2.35 : 1 : scaling format in 2.35:1
- 2 : 1 : scaling format in 2:1
- 1 : 1 : Display the exact image resolution on the screen without image expansion.
- Custom Sizing#### :
  - Overscan
  - Normal
  - Custom ▸
    - H Size
    - V Size
    - H Pan
    - V Pan

Blue Only — OFF / ON — ON / OFF : Turn off the "Red" & "Green" channel (i.e. output all zero to Red & Green channel)
[This function will display on OSD menu when JP4 – 5-6 closed]

* : DISPLAY IN VIDEO MODE ONLY
** : FUNCTION IN ARGB/ DVI / VIDEO NTSC MODE ONLY
# : DISPLAY IN ARGB / DVI MODE ONLY
: FUNCTION IN ARGB MODE ONLY
: DISPLAY WHEN AUDIO ADD-ON BOARD CONNECTED
: DISPLAY IN VIDEO / HD/SD SDI 1 / HD/SD SDI 2 MODE ONLY

Input : Select the input video signal

HD/SD SDI 1
HD/SD SDI 2***
VGA#
DVI
Composite 1
Composite 2***
S-Video
SD Component

: Press "-" key to activate the "Auto Picture Setup" function.

PIP Setup ▸
PIP Source ▸
HD/SD SDI 1 / HD/SD SDI 2 / VGA / DVI / / Composite 1 / Composite 2 / S-Video / SD Component / Off

PIP Size : Off / Small / Medium / Large / PBP
4 possible input groups that can be mixed for PIP :
a) VGA
b) DVI
c) HD-SDI
d) Composite/S-Video/SD-component
It can not allow to select signal source from the same group for PIP.

PIP Position :

 Move the PIP position upward

 Move the PIP position downward

 Move the PIP position to the left

 Move the PIP position to the right

PIP Swap : Swap between the main window and PIP window

PIP Auto off :  : OFF / ON
ON : When PIP is no signal input after 30 seconds, the PIP window will turn off automatically.
OFF : PIP window keeps on
*** DISPLAY WHEN SETTING ON UNDER SETUP → AUTO SOURCE SEEK

Utilities :

Setup ▸
Auto Picture Setup# : Auto adjust the image position, phase and size
Auto Color Gain## : Auto Color Calibration (See appendix IV)
Wide Screen Mode detection# ▸ : Recognize the wide screen mode coming from ARGB port
- Off
- 1280x768
- 1366x768

Manual Clock## :  Adjust the image horizontal size
Manual Phase# :  Fine tune the data sampling position (adjust image quality)

Auto Source Seek :
- Auto :  : OFF / ON
ON – Auto source select always enable
OFF – Disable auto source select function
- Setup ▸ Selection for the corresponding input sources detection

HD/SD SDI 1 
HD/SD SDI 2
VGA 
DVI
Composite 1 
Composite 2 
S-Video 
SD Component

The corresponding input port name display on OSD menu will disappear once setting "OFF".

De-interlacing Mode* ▸

AFM  : Auto Film Mode

TNR  : Temporal Noise Reduction

MADI  : Motion Adaptive De-interlacing

LADI  : Low Angled De-interlacing

[See Appendix VI for AFM, TNR, MADI, LADI function description]

Auto Power :  OFF / ON

ON – Enable soft power off function if absence of input signals

OFF – Disable soft power function

Video Standard (SD)* : Auto / NTSC / NTSC 4.43 / PAL / PAL M / SECAM

Image Orientation : Normal / Horizontal flip / Vertical flip / Rotate

Gamma : 1.0 / 1.6 / 2.2

OSD ▸

OSD position :

H POS  : Move the OSD menu image horizontally

V POS  : Move the OSD menu image vertically

OSD Timeout (sec) : ON – 60 : Adjust the OSD menu timeout period in a step of 5 seconds (max 60 seconds)

ON = Continuous to display OSD menu.

60 = 60 seconds later will turn off the OSD menu.

Language : English / Chinese : Select OSD menu language display

Transparency :  ON / OFF : Set OSD transparency

Freeze : Freeze the image (use "+" button)

Zoom ▸

Zoom level :  : Enable the zoom in function on the image displayed.

Use "+" button to zoom in the image

Use "-" button to decrease the zoomed image

Horizontal pan :  : Pan the image horizontally

Vertical pan :  : Pan the image vertically

Reset to Defaults : Restore to default values

Note : Freeze state will be cleared when you using zoom function.

Color Temperature ▸

5000K

R Gain : 

G Gain : 

B Gain : 

Reset to Defaults : Resume to the default values

6500K

R Gain : 

G Gain : 

B Gain : 

Reset to Defaults : Resume to the default values

8000K

R Gain : 

G Gain : 

B Gain : 

Reset to Defaults : Resume to the default values

9300K

R Gain : 

G Gain : 

B Gain : 

Reset to Defaults : Resume to the default values

User setting :

R Gain : 

G Gain : 

B Gain : 

Reset to Defaults : Resume to the default values

Reset All to Defaults : Resume all color temperature settings to the default values.

Hot Key ▸

Hot key 1 : Volume / Brightness / Contrast / Input / Aspect / Zoom / Freeze / PIP Size / PIP Swap / Image Orientation / Saturation / Hue / Backlight / Auto Picture Setup

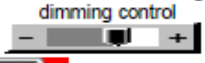
Hot key 2 : Volume / Brightness / Contrast / Input / Aspect / Zoom / Freeze / PIP Size / PIP Swap / Image Orientation / Saturation / Hue / Backlight / Auto Picture Setup

Monochrome Mode ▸

- Color
- Red Monochrome
- Green Monochrome
- Blue Monochrome

Backlight Setup ▸

- B/L Invert : 

: Invert for the backlight brightness
- B/L Control : D/A / PWM : Selection for voltage level dimming control / PWM dimming control
- Backlight Frequency : 

100 ~ 440Hz in a step of 20
- Light Detector : 

: Enable ambient light detector function by using KIT 70220-3

Reset to Factory Defaults

* : DISPLAY IN VIDEO MODE ONLY
# : DISPLAY IN ARGB MODE ONLY
: DISPLAY IN ARGB_MODE ONLY

Installation

0.1 Rigging Procedure

Figure 0.1 shows an example of a prompter and hood mounted on the front of a camera.

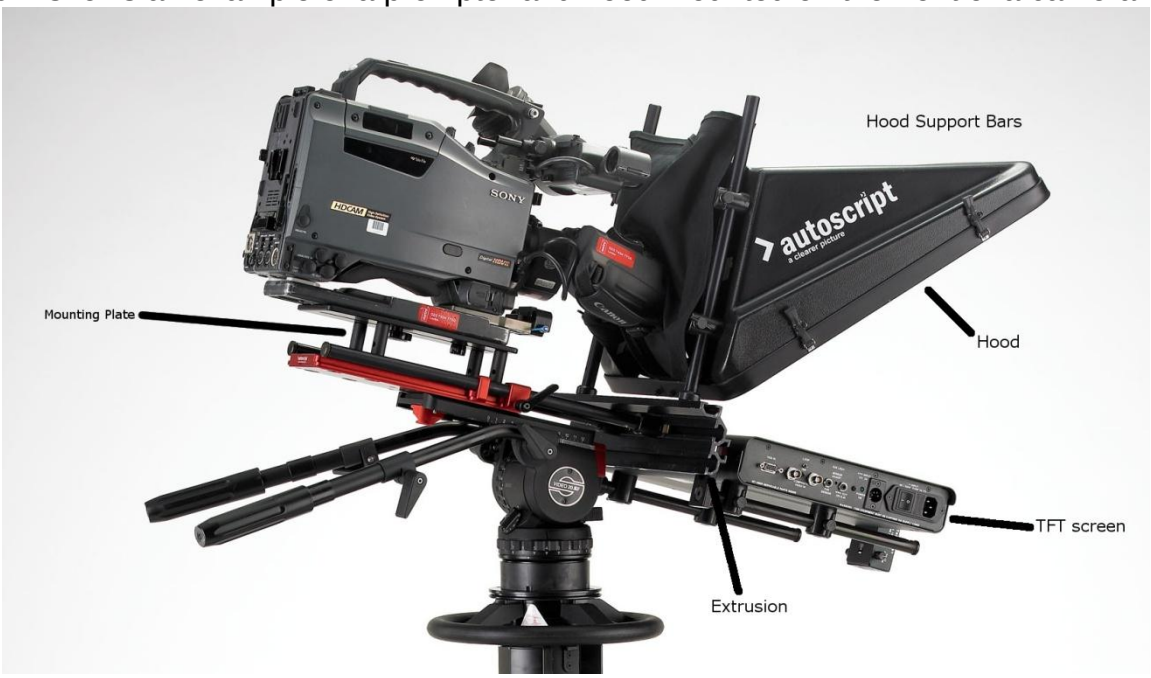


Figure 0.1 Installed prompter

The prompter assembly is supported by a mounting plate that sits beneath the camera. Two rods attached to the mounting plate are bolted to an extrusion that supports the hood and the prompter monitor. The prompter monitor attaches to the extrusion by means of a pair of brackets. The hood attaches to the extrusion via two support bars.
There are three common types of plate for mounting the prompter assembly on a camera mount:

Type ARI/1 This is a sliding two-part mounting plate for ENG pan and tilt heads (see *Figure 0.2*).

MT/P Simple mounting plate

MT/RED Lightweight mounting plate

0.1.1 ARI/1 Sliding mounting plate

Figure 0.2 ARI/1 Sliding mounting plate

1. Slacken the locking levers on the support rods and pull the rods as far forward as possible.
2. Slacken the sliding plate locking lever on the left hand side of top plate.
3. Depress the safety catch at the rear right hand top of bottom plate and slide the top plate off the bottom plate. (*Figure 0.3*)

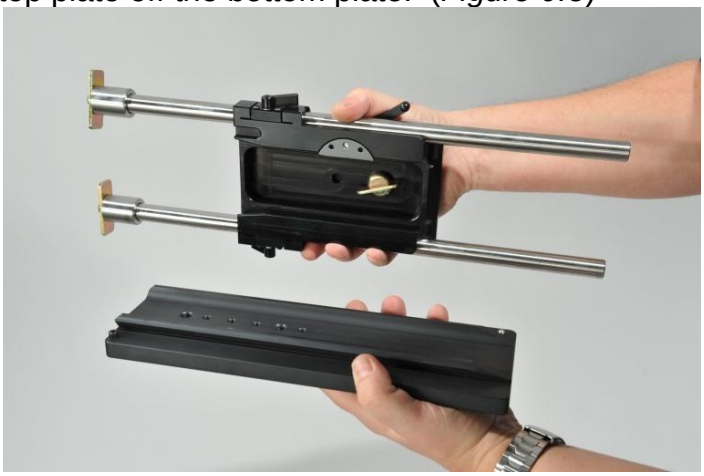


Figure 0.3 Separating top and bottom plates

4. Fix bottom plate to the pan and tilt head using the manufacturers adaptor plate or central 3/8 whit screw.
5. Fix the camera adaptor plate to top plate using captive 3/8 screw - the front of the adaptor plate should line up with the front of the sliding plate.
6. Slide the top plate back onto the bottom and fix camera.
7. Slide the extrusion onto the rods and tighten by rotating the rods. See *Section 0.1.3 Extrusion.*
8. Attach the fixing brackets to the slots on prompter monitor. The slots allow adjustment of the monitor forwards and backwards.
9. Attach the monitor to the extrusion and tighten the fixing screws.
10. Attach the hood to the extrusion and rotate the hood columns to tighten it.
11. Move the on-camera prompter unit back on the support rods until the lens is nearly touching the glass and lock in position with small locking lever.

12. Move the whole camera/prompter assembly back on sliding plate to obtain perfect balance. Lock the assembly with the large locking lever on side (*Figure 0.1)*

0.1.2 MT/P and MT/RED

1. Fix the camera adaptor plate to the riser platform of the plate.
2. Fix the main body of the plate is fixed to the pan and tilt head.
3. Replace camera. For the MT/RED use integral mounting rods. For MT/P use telescopic rods. See *Section 0.1.4 Telescopic Rods*.
4. Continue as detailed in Section 0.1.1 ARI/1 Sliding mounting plate0.1.1 ARI/1 Sliding mounting plate as for ARI/1 but use the movement in the pan and tilt head to balance the camera.

0.1.3 Extrusion

Figure 0.4 shows the extrusion that is used in all rigs.

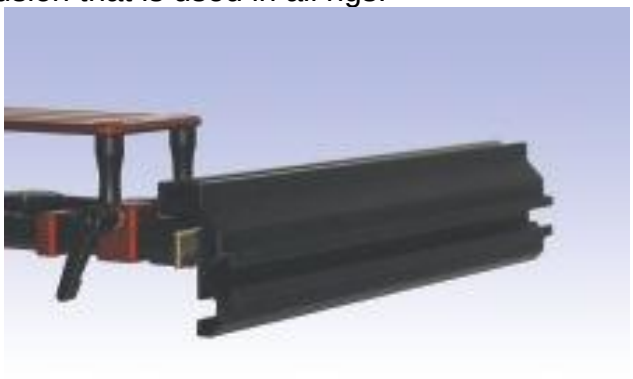


Figure 0.4 Extrusion

The on-camera prompt monitor slides onto the single slot at the front (left-hand side in *Figure 0.4* . The hood support columns slide onto the offset slot at the top. The mounting plate or rods slide into the back of the extrusion where two slots provide alternative vertical positions for the on-camera prompter.
Rods attach to the extrusion using a T-bolt that is tightened by turning the rod. See *Figure 0.5.*

Figure 0.5 Attachment to extrusion

0.1.4 Telescopic Rods

These mounting plate rods are for use with large studio pan and tilt heads such as the Vinten Vector 70, Mk VIIa etc.

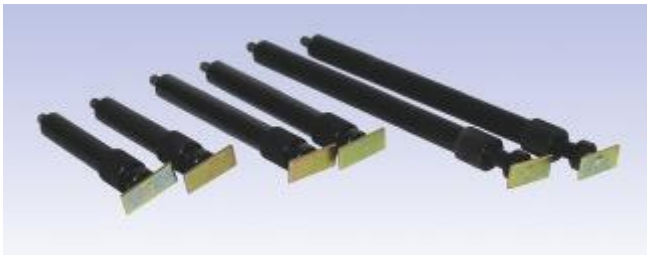


Figure 0.6 Telescopic rods

1. Use the threaded holes in the front face of the wedge adaptor of the pan and tilt head. Slide on the extrusion using the appropriate slot.
2. Slacken the knurled nuts and pull the rod inners fully out.
3. Slide on the extrusion and lock in central position by rotating the inner rods to tighten onto the "T" nut.
4. Slide the on-camera prompter onto the extrusion and tighten the Allen screws. See Figure 0.7.

Figure 0.7 Rods into Vinten Wedge Adapter

0.2 Connections

0.2.1 Prompter

Install the AUTOSCRIPT PC Card in an appropriate position (ISA or PCI) in the PC.
Install the WinPlus software from the CD disk supplied. Refer to the documentation supplied with the software.
Connect the Scrolling Control Unit and Genlock input (if required) to the PC Card.
Connect up the units. Figures 0.8 to **Error! Reference source not found.** show the connections to the various units.

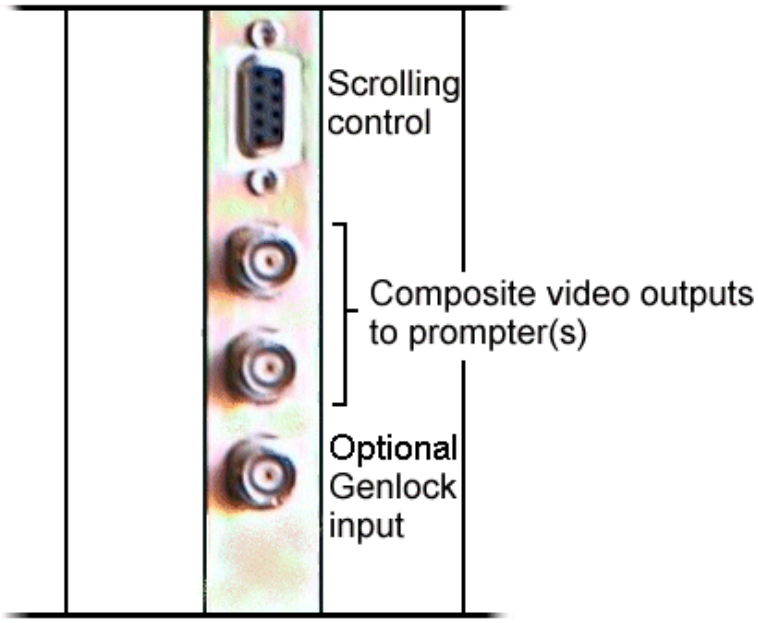


Figure 0.8 PC Card connections

0.2.2 X-Box

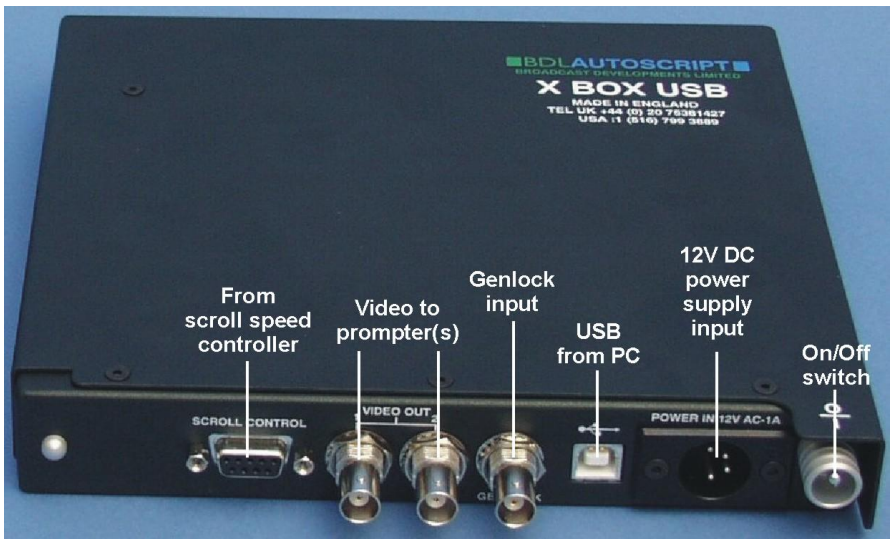


Figure 0.9 X-box connections

The X-box is an alternative to having a PCI card fitted in the PC and it provides very similar facilities. It obtains prompting video from a USB port on the PC and provides scrolling video outputs for one or two prompters. The unit requires a 12V DC power supply. Alternatively it can be docked with a Mains/VDA Adapter to operate from a mains supply.

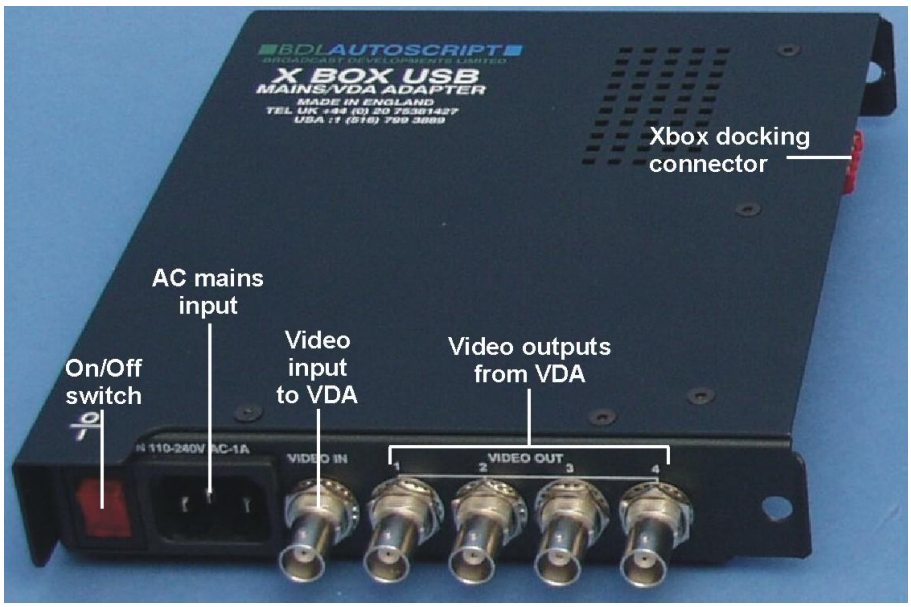


Figure 0.10 X-box DVA/Power Unit connections

The X-box DVA/Power Unit docks with the X-box to provide a mains-derived power supply for the unit. It also houses a video distribution amplifer that can be used to provide extra prompting video outputs. To use these outputs, the VDA Video input must be connected to one of the video outputs on the X-box. There is no video feed via the docking connector.

7. Contact Details

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