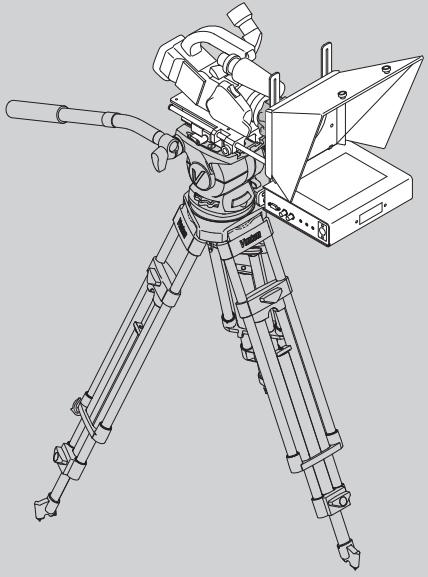
User Guide

autoscript
a clearer picture

LED 8 Inch TFT On-Camera Prompters

LED 8 Inch TFT
On-Camera Prompter



Part No. LED8TFT-ME

EN

www.autoscript.tv

Original Instructions: English

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We are making every effort to ensure that our manuals are updated on a regular basis to reflect changes to product specifications and features. Should this manual not contain information on the core functionality of your product, please let us know. You may be able to access the latest revision of this manual from our website.

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Contents

Safety

Important information on the safe installation and operation of this product. Read this information before operating the product. For your personal safety, read these instructions. Do not operate the product if you do not understand how to use it safely. Save these instructions for future reference.

Warning Symbols Used in these Instructions

Safety cautions are included in these instructions. These safety instructions must be followed to avoid possible personal injury and avoid possible damage to the product.

WARNING!
Where there is a risk of personal injury or injury to others, comments appear supported by the warning triangle symbol. Where there is a risk of damage to the product, associated equipment, process or surroundings, comments appear supported by the word 'Caution'.

ELECTRIC SHOCK
Where there is a risk of electric shock, comments appear supported by the hazardous voltage warning triangle.

Intended Use

The LED 8 inch TFT high brightness on-camera prompter has been designed to provide a high quality teleprompting facility for television broadcasting.

The prompter is intended for use by television camera operators, and because of its light weight design it is particularly suitable for small jib applications within a TV studio environment, or on outside broadcasts (OB) when protected from weather by a suitable waterproof cover.

Health and Safety

WARNING! Risk of personal injury or injury to others. All personnel must be fully trained and adhere to correct manual handling techniques and Healthy & Safety regulations. It is the responsibility of the local organisation to enforce safe working practices at all times.

WARNING! Risk of personal injury or injury to others. Care must be taken when handling and installing the reflective glass panels. Always store spare glass panels in the original packaging.

Electrical Connection

WARNING! Risk of electric shock. Always check cables for signs of damage. Damaged cables can cause personal injury and/or damage the equipment.

CAUTION! This product must be connected to a power supply of the same voltage (V) and current (A) as indicated on the product. Refer to the technical specifications for the product.

CAUTION! Only use the power cable specified for this product and certified for the country of use.

CAUTION! Using alternative power sources will invalidate the system EMC liability.

CAUTION! Always use a fuse of the correct type and rating for the product. Refer to the Technical Specifications for the product

Mounting and Installation

WARNING! Before attempting to install or adjust the prompter assembly, the tilt axis of the head support must be securely locked horizontally.

WARNING! Do not install this product onto a camera support or other equipment that is not designed to support the weight of the product and its payload.

WARNING! Always ensure that all power and auxiliary communications cables are routed so that they do not present any danger to personnel. Take care when routing cables in areas where robotic equipment is in use.

Water, Moisture and Dust

WARNING! Protect the product from water, moisture and dust. The presence of electricity near water can be dangerous.

WARNING! When using this product outside, protect from rain using a suitable waterproof cover.

Ventilation

WARNING! Slots and openings are intended for ventilation purposes to ensure reliable operation of the product, and protect it from overheating. Do not block or cover any slots and openings.

Operating Environment

CAUTION! The product should not be used outside the operating temperature limits. Refer to the product technical specifications for the operating limits for the product.

Cleaning

WARNING! Risk of electric shock. Always disconnect and isolate the product from the power supply before cleaning.

CAUTION! Do not use solvent or oil-based cleaners, abrasives or wire brushes.

Maintenance

WARNING! Servicing or repair of this product must only be performed by qualified and trained electrical engineers.

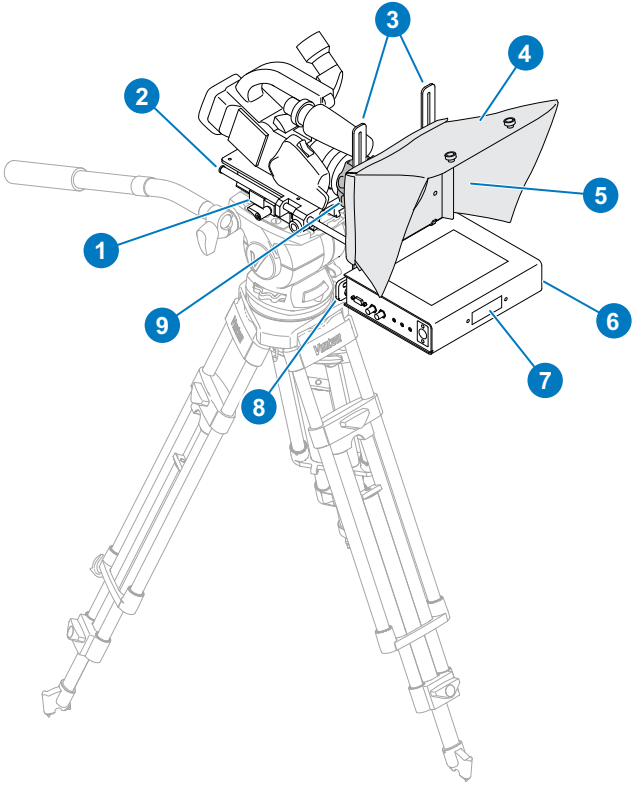
WARNING! The fitting of non-approved parts and accessories, or the carrying out of non-approved alterations or servicing can be dangerous and could affect the safety of the product. It may also invalidate the terms and conditions of the product warranty.

About this User Guide

This user guide describes the installation of the LED 8 inch TFT onto a suitable camera support as part of a full prompting system, using the range of compatible mounting equipment available for various camera configurations.

On-Camera Prompter Key Components

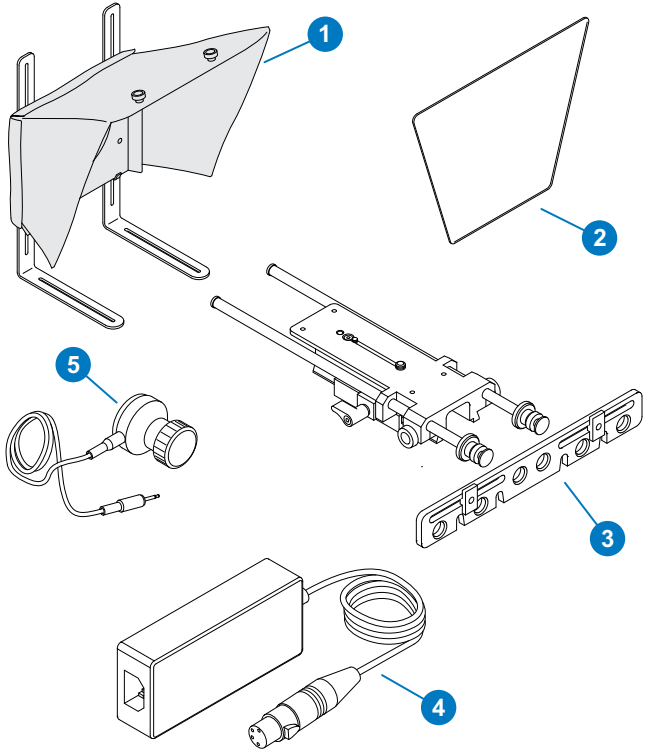
The illustration below highlights the key components used in a full prompter installation.



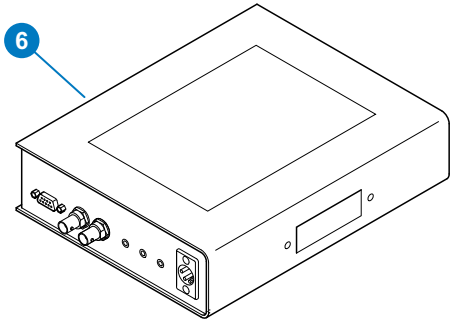
1	Camera mounting plate
2	Prompter support sliding rods
3	Hood and prompter mounting angle brackets
4	Folding hood
5	Reflective glass
6	LED TFT monitor display
7	Built-in tally light
8	Prompter assembly support bar
9	Light shield cloth

Prompter Installation Components

The following section describes the range of component parts available for a complete prompter installation using the LED 8” TFT monitor.

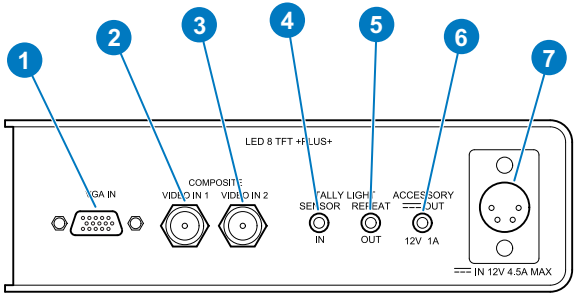


Box Contents



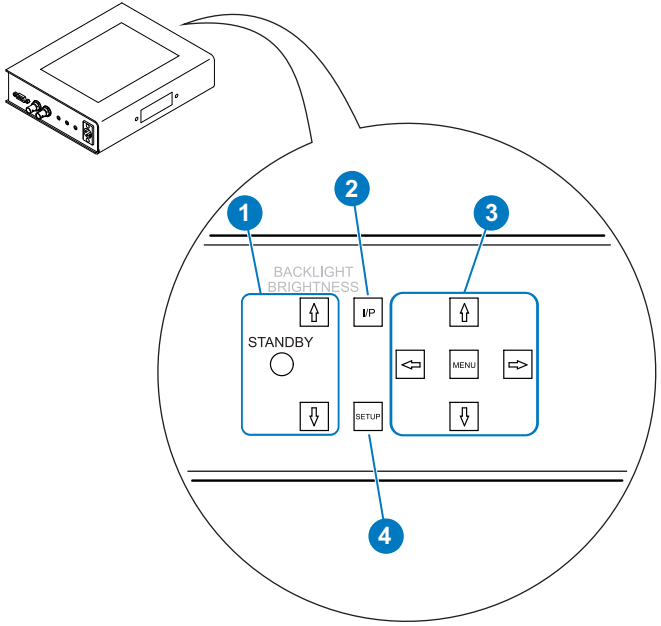
No.	Part	Description
1	**FH-8E**	Folding hood (unassembled)
2	**RGFH-8**	Reflective glass panel
3	**MT-BLUE**	Small mounting plate for tripod and jib applications with 8" prompters
4	**PSU-XLR**	12V DC power supply unit
5	**SNSR**	Tally light opto sensor
6	**LED8TFT-M**	8 inch LED TFT prompter monitor

Prompter Monitor Connections



1	VGA IN socket
2	Composite video IN1 socket
3	Composite video IN2 socket
4	Tally light sensor IN socket
5	Tally light repeat OUT socket
6	12V DC OUT accessory socket
7	12V DC IN power socket

Prompter Monitor Control Panel



1	Backlight setting buttons and standby indicator
2	Video input selection button
3	Onscreen menu navigation buttons
4	AUTO VGA button

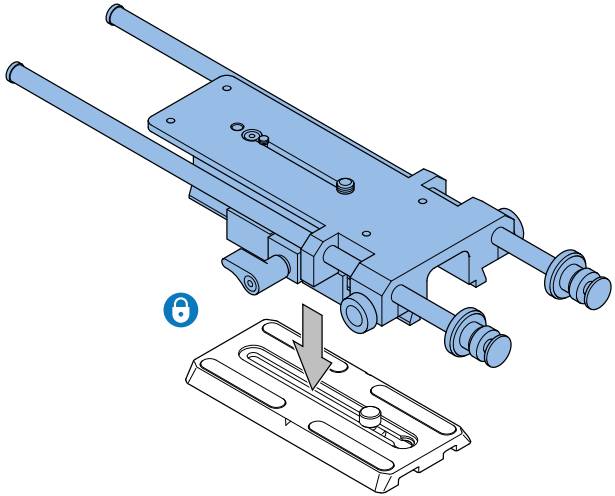
Mounting the Prompter Components

WARNING! Before attempting to install or adjust the prompter assembly, the tilt axis of the head support must be securely locked horizontally.

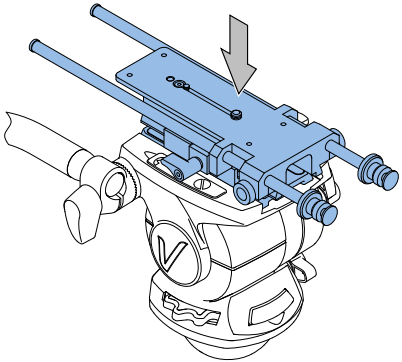
Fitting the Camera Mounting Plate

The MT-BLUE camera mounting plate must be fitted between the head support and the camera body to allow installation of the prompter system.

1. Fit the wedge plate adaptor to the MT-BLUE mounting plate.

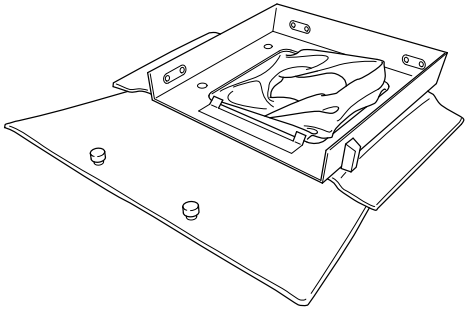


2. Fit the MT-BLUE mounting plate to the camera support.



Assembling the Folding Hood

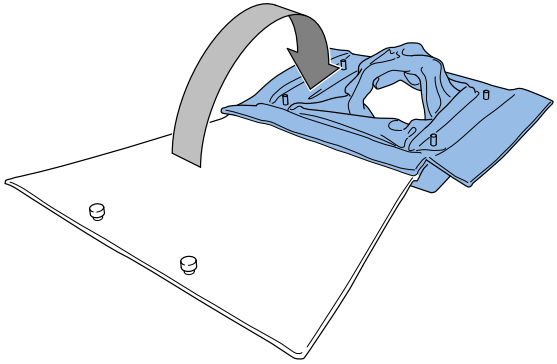
The hoods are supplied flat-packed and require some basic assembly.



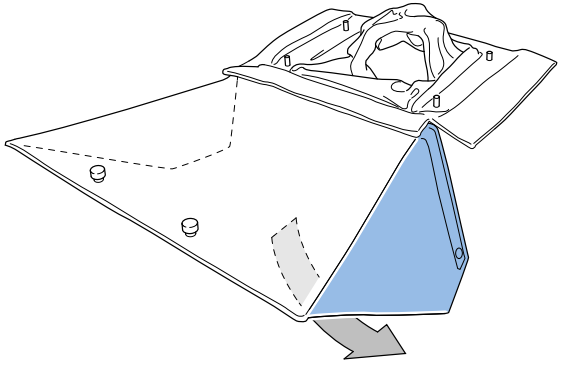
When used for outside broadcasts and other portable applications, the hoods can easily be folded flat again for transportation.

Installation

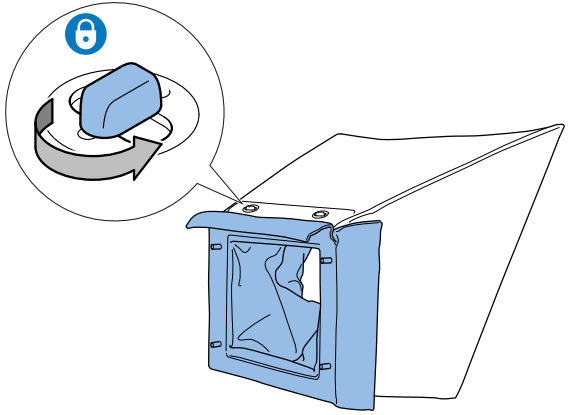
1. Fold the back plate of the hood out away from the top flag.



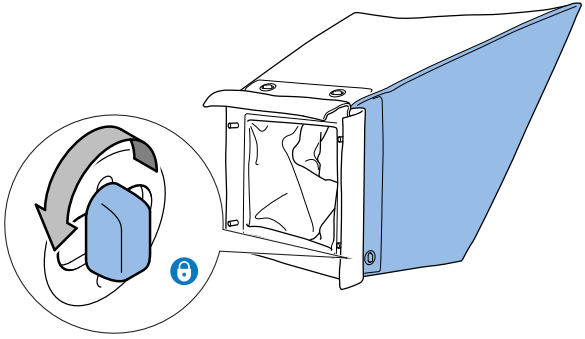
2. Fold the side flags outwards.



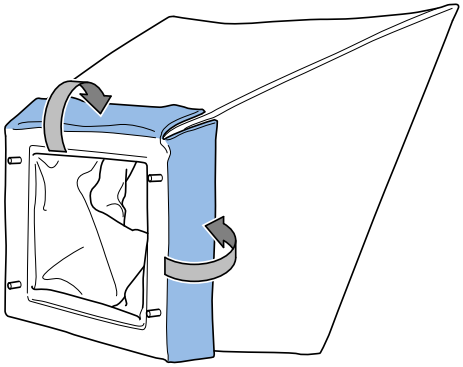
3. Align the two eyelets in the top flag with the tabs and twist to lock.



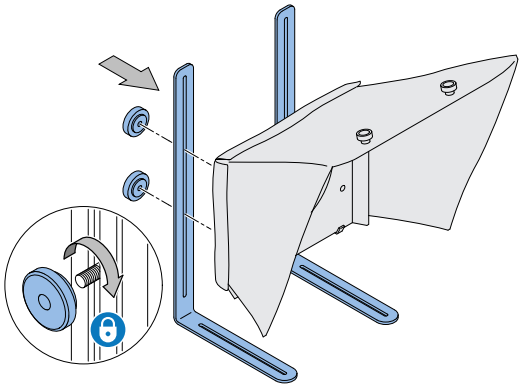
4. Align the single eyelets in both the side flags with the tabs and twist to lock.



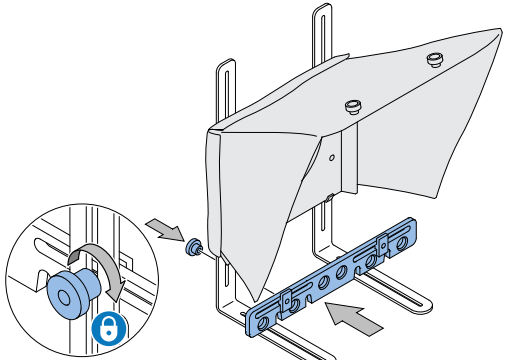
5. Fold the Velcro flaps down over the top and side flags.



6. Fit the two angle brackets to the rear, securing in position with the four locking knobs.

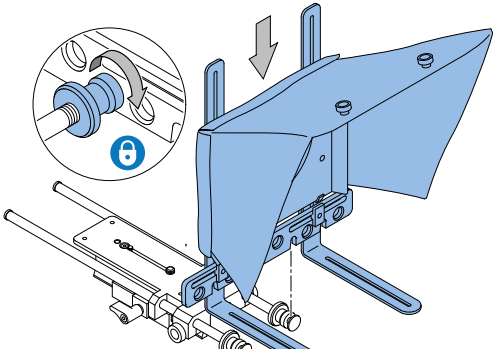


7. Fit the support bar onto the brackets and secure with the two locking knobs ensuring the bar is in a central position.

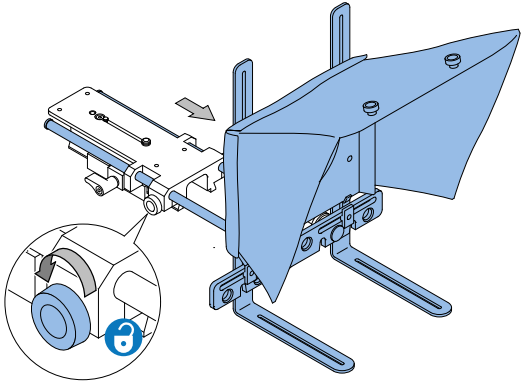


Mounting the Hood and Camera

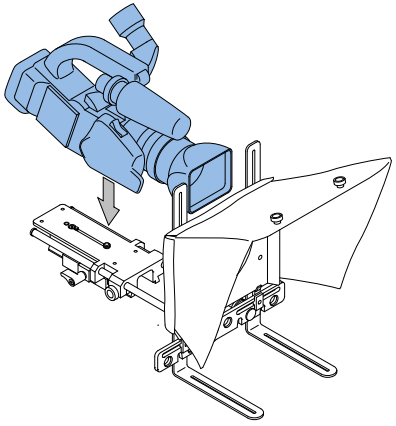
1. Lower the hood assembly into the slots at the end of the mounting rods. Secure in place with the clamping knobs on the rods.



2. Loosen the rod clamps on the MT-BLUE mounting plate and slide the hood assembly fully forwards.



3. Fit the camera securely to the top of the MT-BLUE mounting plate.



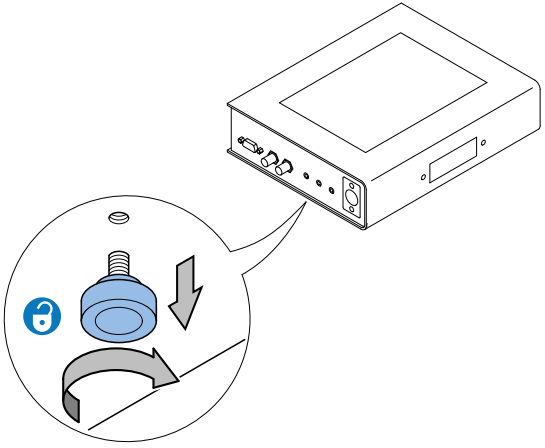
Mounting the Prompter Monitor

WARNING! Before attempting to install or adjust the prompter monitor assembly, the tilt axis of the head support must remain securely locked horizontally.

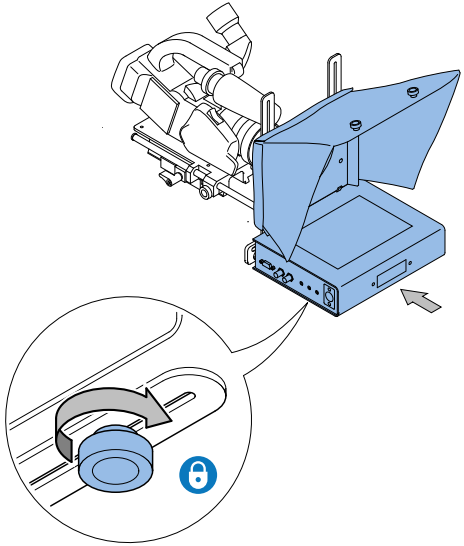
WARNING! The prompter monitor must be isolated from the AC power supply during installation or adjustment.

When the hood assembly and camera are correctly secured to the camera mount, the prompter monitor can be fitted.

1. Remove the two fixing screws from the base of the monitor.



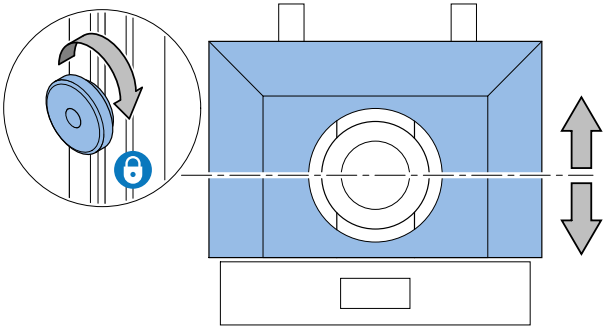
2. Align the two guide pins in the base of the monitor with the slots in the support brackets. Refit the two fixing screws to secure the monitor in position.



Adjusting the Vertical Hood Position

The vertical position of the hood must be adjusted to centralise it with the camera lens.

1. Loosen the four fixing screws on the rear of the hood to adjust the position of the hood on the brackets.

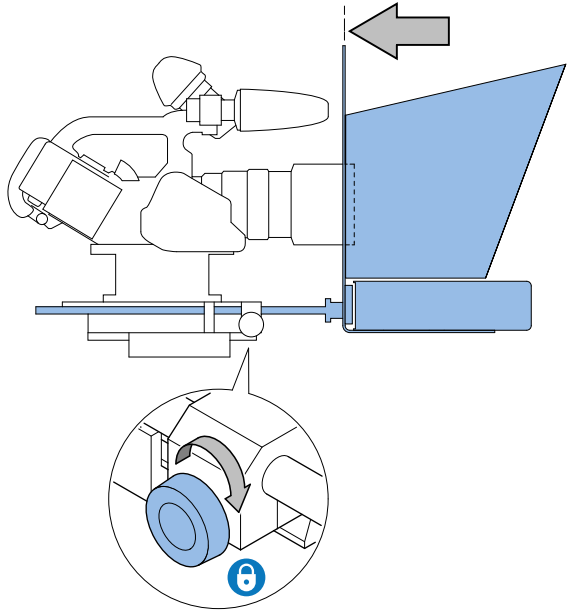


2. Adjust the vertical position of the hood to centralise it with the camera lens and fully re-tighten the fixing screws.

Adjusting the Prompter Assembly Position

The horizontal position of the prompter assembly must be adjusted to optimise its position relative to the camera lens.

1. Loosen the rod clamps on the MT-BLUE mounting plate and move the prompter assembly back until the hood overlaps the camera lens.



2. Tighten the rod clamps to secure the assembly in position.

Fitting the Reflective Glass Panel

WARNING! Risk of personal injury or injury to others. Care must be taken when handling and installing the reflective glass panels. Always store spare glass panels in the original packaging.

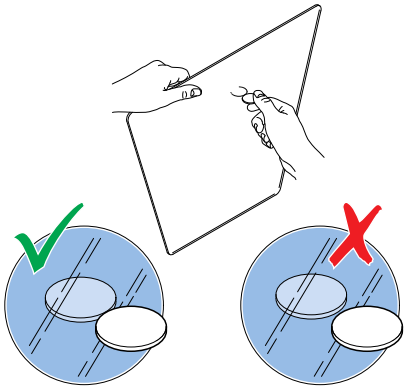
WARNING! Only use the correct size glass panel designed for the installed hood.

When the prompter assembly has been installed, the reflective glass panel can be fitted to the prompter assembly.

Panel Orientation

For the prompter to display images, it is essential that the reflective side of the glass is installed facing outwards. The reflective side of the glass can be established as follows:

Carefully hold a blunt object such as a coin against the surface of the glass.

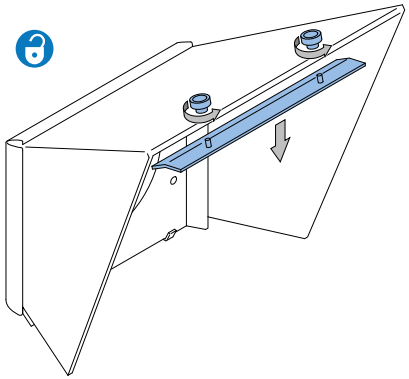


If the object is being held against the reflective side, there will be no gap (depth of the glass) before the reflection.

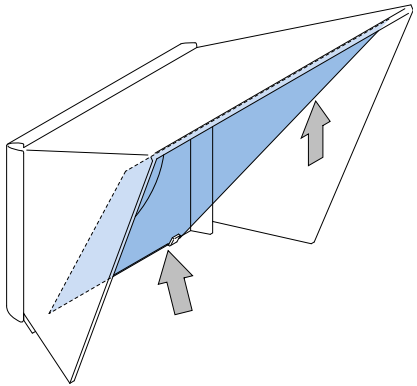
Fitting the Glass Panel

The installation procedure for the glass panel is the same on all types of hood, although there are more fixing screws on the larger hoods.

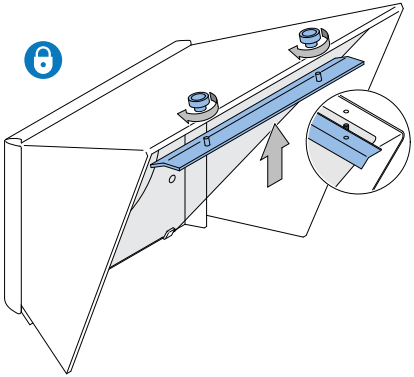
1. Remove the two screw fixings from the top of the hood to release the top glazing bar.



2. Carefully position the glass panel on the bottom glazing bar inside the hood.



3. With the glass supported at all times, replace the top glazing bar and secure with the two screw fixings.

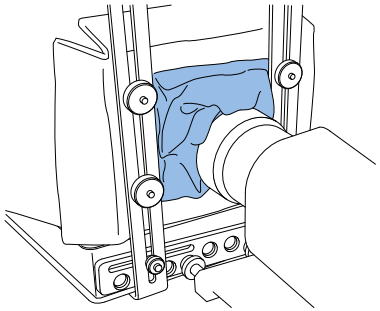


Fitting the Light Shield Cloth

CAUTION! Ensure that the light shield cloth is only loosely fitted around the body of the servo lens to allow it to continue operating freely.

The light shield cloth is built in to the hood and must be fitted around the camera lens to prevent light entering behind the glass. This is essential for the prompter to display text clearly.

Fit the light shield cloth around the camera lens and pull the drawstring to fully exclude incidental light.

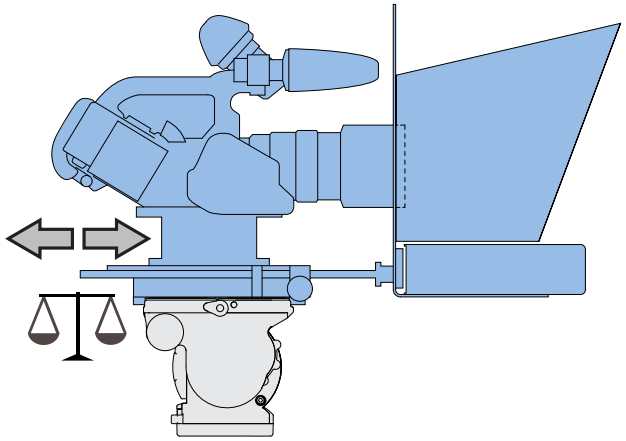


Balancing

WARNING! After fitting or adjusting the prompter assembly and any accessories, the payload must be correctly re-balanced. When checking the balance, support the camera at all times to prevent it from falling away suddenly.

Balancing is achieved by correctly positioning the combined camera and prompter payload on the camera support.

1. Unlock the tilt axis and with the payload supported at all times check the fore and aft balance.



2. If the payload is not correctly balanced, lock the tilt axis and:

   a) If the payload is falling forward (front heavy), slide it further back on the head support.

   b) If the payload is falling backwards (rear heavy), slide it further forward on the head support.

3. Secure the payload on the camera support and re-check the balance

Camera Support Adjustments

If necessary, further balancing and positional adjustments should be made to the camera head support itself.

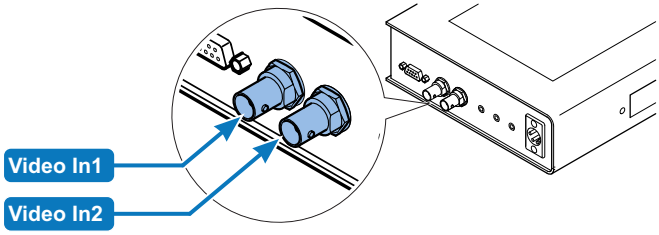
Connecting the Prompter Monitor

Video Connections

Connection to the prompter monitor using composite video should always be made with screened 75Ω coaxial cable.The video cable screen should be connected to earth (ground) at both ends.

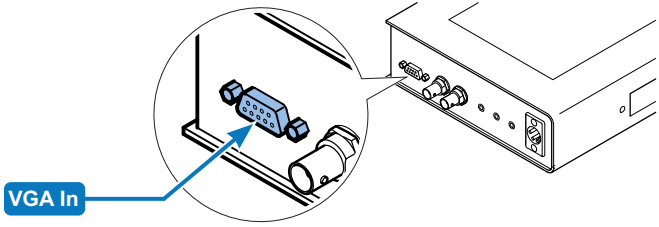
Composite Video Connection

Two composite video inputs are available on the monitor.



VGA Connection

This connection allows a PC VGA signal to be displayed on the monitor.

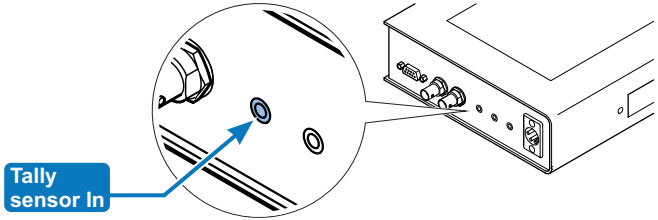


Additional Accessory Connections

Autoscript accessories such as tally sensors or the ClockPlus can also be connected to the monitor.

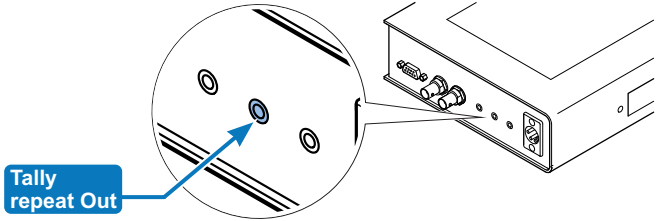
Tally Light Sensor Connection

Provides connection for an Autoscript external opto sensor attached to a camera tally light to activate the built-in tally light on the monitor.



Tally Light Repeat Connection

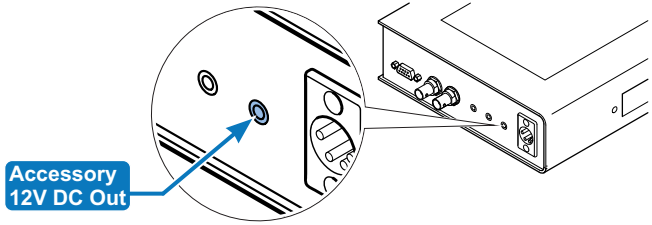
Provides connection for an Autoscript tally device to relay the tally indication signal being used by the monitor.



Accessory DC Connection

CAUTION! The accessory DC out socket is intended for use with approved Autoscript accessories only. Do not exceed the current output limit of the product when powering auxiliary devices.

Provides a 12V DC supply to operate external accessories such as the Autoscript TallyPlus.

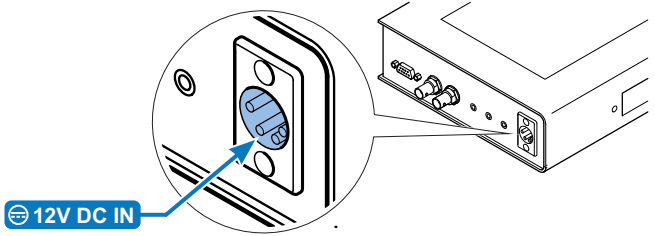


For more information on the specifications of the accessory sockets, see the section **Connections Data** on page 22.

Power Connection

DC Power Connection

CAUTION! When powering the product on DC power, use a regulated 12V DC power source capable of supplying at least 3A.



Powering Up

Before powering up, ensure that all external cable connections have been secured correctly.

To power up, apply power to the 12V DC IN socket. If power is present, the prompter monitor and tally light will illuminate.

Control Panel Buttons

The buttons on the control panel are used to configure the setup of the prompter monitor screen. The buttons have legends to indicate their function, and are back-illuminated.

Backlight Control Buttons

Button	Button Function
	Increases the normal backlight operating brightness.
	Decreases the normal backlight operating brightness.

Standby LED

The standby LED provides an indication of the current status of the monitor backlight. The LED illuminates if the monitor has entered standby mode due to a period of inactivity.

Input Selection Button.

Button	Button Function
	INPUT SELECTION button steps to the next available video input in the sequence CVBS1, CVBS2, VGA. Press the button repeatedly until the desired input appears.

Setup Button.

Button	Button Function
	This button is only operative for VGA inputs. Pressing it will automatically adjust the image position, phase and size.

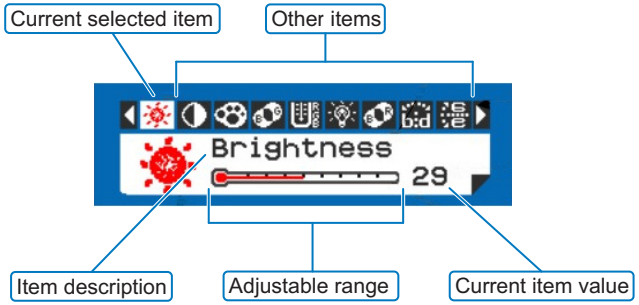
Menu Buttons

This group of five buttons are for on-screen menu navigation.

Button	Button Function
	MENU button: Turns on screen display (OSD) menus ON or OFF.
	UP arrow button: Moves the selector to the next item in the menu.
	DOWN arrow button: Moves the selector to the previous item in the menu.
 	RIGHT and LEFT arrow buttons: Use the buttons to adjust the parameter or options of the selected menu item.

Menu Display and Operation

The setup menu is navigated and configured using the menu buttons, with the following display interface:



Main Menu Items

All the available main menu items are shown in the following tables, with any values that can be changed by the user, together with the video input(s) applicable. Where there is a variable parameter the maximum and minimum limits or options are shown.

Item	Adjustable range	Video Input
Brightness	0 - 64	AV / VGA
Contrast	0 - 64	AV / VGA
Color	0 - 64	AV
Tint	0 - 32	AV
Sharpness	0 - 16	AV
Dimmer*	See note	See note
Color Tone	Normal / Warm / Cool	AV / VGA
Mirror	OFF/ON	AV / VGA
Flip	OFF/ON	AV / VGA
H Position	-25 - +25	AV / VGA
V Position	-10 - +10	AV / VGA
Auto		VGA
Scan	Over Scan / Under Scan	AV
Information		AV / VGA
Setup	See the section **Setup Menu Items** on page 19	AV / VGA
Factory Set		AV / VGA
Exit		AV / VGA

*The menu item **Dimmer** does not function. To adjust the backlight see the section **Backlight Control Buttons** on page 17.

Setup Menu Items

If the item **Setup** is selected from the main menu, the following options are available:

Item	Adjustable range	Function
Show Status	ON / OFF	Show signal status
Blue Screen	ON / OFF	Blue screen displayed when no signal is present
Auto Power On	ON / OFF	Power input module turns on automatically
Auto Saving	OFF / 3s / 5s / 15s / 30s	When no signal is present the monitor will power down at the pre-determined time
Detect Source	ON / OFF	Auto detection and switching of input signal source
Return		Exit to main menu

Routine Maintenance

The LED 8 inch TFT on-camera prompter requires minimal routine maintenance, apart from checking the connections and overall operation periodically.

Routine checks

During use, check the following:

- Check cables for signs of wear or damage. Replace as necessary.
- Check that all cables are connected properly.

Cleaning

WARNING! Risk of electric shock. Disconnect and isolate the product from the power supply before cleaning.

Prompter Assembly Cleaning

During normal use the only cleaning required should be a regular wipe over with a dry, lint-free cloth. Dirt accumulated during storage or periods of disuse may be removed with a vacuum cleaner. Particular attention should be paid to all connection ports on the monitor.

Reflective Glass Cleaning

WARNING! Risk of personal injury or injury to others. Care must be taken when handling or cleaning the reflective glass panels. Always store spare glass panels in the original packaging.

Care and cleaning of the reflective glass panel is essential for increased life and prompting display performance.

No solvents or glass cleaners should be used. Only use clean water and a damp lens cloth when cleaning. Do not apply excessive pressure to the reflective glass panel during the cleaning process.

Fault	Check	Comments
The monitor is not powering up.	Check that the DC power source is connected and secured.	See the section **Power Connection** on page 16
	Check that AC power is being supplied to the DC adaptor.	
No prompting text or video display on the monitor screen.	Check that the video cable is connected and the video source is active.	See the section **Video Connections** on page 15
	Use the INPUT SELECTION button to step through to the correct video input channel.	See the section **Input Selection Button.** on page 17
The prompting text display is 'noisy' (poor quality imaging)	Ensure that quality screened cables have been used for the video signal and that the screen is earthed at both ends.	

Technical Specification

Physical Data

Width* . . . . . .240 mm (9.5 in)
Height* . . . . . .180 mm (7.1 in)
Length* . . . . . .54 mm (2.1 in)
Weight. . . . . 1.2 kg (2.6 lb)
*Excluding controls/connectors.

Environmental Data

Operating temperature range . . . . . .5°C to +40°C (41°F to +104°F)
Storage temperature range. . . . . -20°C to +60°C (-4°F to +140°F)

Electrical Data

Video inputs . . . . . .Auto-sensing PAL/NTSC (2), VGA
DC Power input. . . . . .12V DC
Power consumption 18W (1.5A)

Display Data

Backlight technology. . . . . .High brightness LED
Brightness. . . . . .1700 nits
Contrast ratio 500:1
Resolution. . . . . .800 x 600 (XGA)
Viewing angle . . . . . .160°(H), 130°(V)
Diagonal screen size . . . . . 203.2 (8 in)
Display area . . . . . .162 x 121.5 mm (6.4 x 4.8 in)
Reading range . . . . . 3 m (9 ft, 10 in)

Connections Data

DC Power Socket

Connector type: 4 pin XLR plug.

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

Composite Video In (1 and 2)

Connector type: 75Ω BNC socket.

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

Opto Sensor Input

Connector type: 3.5 mm mono jack socket.

Pin	Signal
Tip	HOT
Sleeve	GROUND

Connection for an external Autoscript opto sensor to activate the built-in tally light on the monitor. The sensor is attached to the camera tally light and allows the monitor to mimic the operation of the camera tally.

Alternatively, the tally light can be triggered by connecting a contact closure (ground loop) to the opto sensor socket, or applying a positive logic voltage to the TALLY LOGIC input on pin 2 of the XLR socket.

Sensor/Grounding Loop Specification:

- Light Dependent resistor, 20kΩ at 10 Lux, 5KΩ at 100 Lux or (grounding) contact closure
- High illumination or contact closure = Tally light ON
- Low illumination or contact open = Tally light OFF

Tally Repeat Output

Connector type: 3.5 mm mono jack socket.

Pin	Signal
Tip	HOT
Sleeve	GROUND

Open collector output giving contact closure to ground when the built-in monitor tally light is ON. Intended to be used to operate an external tally device such as the Autoscript +Clock-Plus+.

Accessory DC Output

Connector type: 3.5 mm mono jack socket.

Pin	Signal
Tip	+12V DC
Sleeve	GROUND

Provides a 12V DC supply to operate external accessories such as the Autoscript +Tally-Plus+. Fused internally with a resettable fuse.

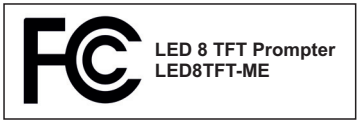
VGA Input

Connector type: 15 pin High Density D socket.

Pin connections conform to the VESA VGA standard.

Technical specifications are subject to change without notice.

FCC Certification



FCC Notice

This product complies with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference with radio communications. Operation of this product in a residential area is likely to cause harmful interference,in which case you will be required to correct the interference at your own expense.

FCC Warning

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC Declaration of Conformity

This product complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This product may not cause harmful interference.

2. This product must accept any interference received, including interference that may cause undesired operations.

Declaration of Conformity

Vitec Videocom Limited declares that this product has been

manufactured in accordance with BS EN ISO 9001:2008 (Note: this applies only to EPIC monitors and LEDXX series monitors).

This product complies with the following EU Directives:

- Low Voltage Directive 2006/95/EC
- EMC Directive 2004/108/EC

Compliance with these directives implies conformity to applicable harmonized European standards

(European Norms) which are listed on the EU Declaration of Conformity for this product or product family. A copy of the Declaration of Conformity is available upon request.

Environmental considerations

ROHS Compliance Statement

Vitec Videocom Limited is compliant with the European Union Directive 2002/95/EC Restrictions of Hazardous Substances (RoHS) that restricts the use of hazardous substances in Electrical and Electronic Equipment.

European Union Waste of Electrical and Electronic Equipment (WEEE) Directive (2002/96/EC)

This symbol marked on the product or its packaging indicates that this product must not be disposed of with general household waste. In some countries or European Community regions separate collection systems have been set up to handle the recycling of electrical and electronic waste products. By ensuring this product is disposed of correctly, you will help prevent potentially negative consequences for the environment and human health. The recycling of materials helps conserve natural resources.

Visit our website for information on how to safely dispose of this product and its packaging.

In countries outside the EU:

Dispose of this product at a collection point for the recycling of electrical and electronic equipment according to your local government regulations.

Pollution statement

This equipment is designed for operation in Pollution Degree 2 environments.

autoscript
a clearer picture

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