

Specifications

Electrical		230 VAC 50 Hz (unless otherwise specified)		
Mains input connector		IEC type (flying lead on the 5AV2642)		
Physical	Weight (kg)	Height (mm)	Width (mm)	Depth (mm)
5AV2645	5	88 (2U)	483	411
5AV2641	4	44 (1U)	483	411
5AV2642	3	50	180	411
6B264540	.01	88 (2U)	44 (1U)	N/A

Ordering information

5AV2645	19 inch 2U rack mounting frame for up to 9 modules
5AV2641	19 inch 1U rack mounting frame for up to 4 modules
5AV2642	Portable case for up to 2 modules
6B264540	Single module width front or rear blank panel

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DTL 2600 range



User Guide



2600 range and frames

This guide explains the range and details the rack mounting frames and portable case. The modules with associated rear connector units have their own guides.

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Overview of the frame system

2600 series modules and associated rear connector units are designed specifically to fit the 5AV2645 2U and the 5AV2641 1U rack mounting frames or the 5AV2642 portable cases.

The 2U frame can accommodate up to 9 modules with their associated rear connector units. The 1U frame can accommodate up to 4 modules with their associated rear connector units. The portable case can accommodate up to 2 modules with their associated rear connector units. Rear connector units are fitted from the rear and carry the input and output connectors for the relevant front modules. Front modules are fitted from the front and carry user adjustments, fuses and warning LEDs. Front modules mate with their rear connector and also pick up mains power, which is distributed within each frame.

A mains power supply bus runs the full width of the frame and distributes power via D type connectors to the modules.

Installation of frames & portable case, modules and rear connector units

Please read section 1.3 'Safety and Pre-Installation checks' before proceeding.

Systems are generally delivered with modules (including sub-modules) and associated rear connector units already installed and configured within frames to your requirements.

To meet safety and EMC requirements rear connector units should only be fitted or re-configured by suitably trained personnel. All vacant positions in frames should be blocked with blank panels. Rear connector units should not be fitted or re-configured whilst power is being supplied to the frame.

When frames have been assembled and mounted in a 19" equipment bay, power should be connected using the IEC mains input socket. Whilst individual modules carry the appropriate mains fuses, the frames themselves are not fused and power supply leads should be protected by a 1 amp fuse per frame. All vacant positions in frames should be blocked with blank panels.

In all cases the mains earth **MUST** be connected. (In the case of the 5AV2645 2U frame an additional safety earth post is available next to the mains inlet.)

Rear connector units should first be inserted carefully from the rear ensuring that the two guide posts either side of the edge connector fit into the holes provided for each unit in the inside of the frame. Units should be secured with the M3x8 screws and washers provided.

Front modules should then be inserted from the front into the relevant position to mate with their respective rear connector units. Modules should be secured with the captive thumb screw(s) fitted.

1.1 Introduction

This User's Guide provides information on installing and operating 2600 series systems.

Systems are generally delivered with modules and associated rear connector units already installed and configured within frames to your requirements. Section 1.3 'Safety and Pre-installation checks' includes instructions that must be followed.

This guide also describes how to install or re-arrange modules in 2600 series frames (see section on specific frame) and how to operate and configure modules and their options (see section on specific module).

Whilst every effort has been made to ensure the accuracy of this guide, DTL Broadcast Ltd. cannot be held responsible for errors or omissions. We would of course welcome any constructive feedback.

1.2 Overview of the range

The 2600 range comprises video and audio modules that, together with their associated rear connector units, can be housed in the 2U and 1U rack mounting frames or the portable case.

Modules include SDI & analogue video and analogue audio distribution amplifiers and small routing matrices. Modules are compact and rugged and are designed to meet or exceed current broadcast specifications. Each module has an independent power supply. Many thousands of these units are in use worldwide.

1.3 Safety and Pre-Installation checks

Safety warning



To meet safety and EMC requirements rear connector units should only be fitted or re-configured by suitably trained personnel. All vacant positions in frames should be blocked with blank panels. Rear connector units should not be fitted or re-configured whilst power is being supplied to the frame.

Before connecting the mains power supply to a frame, please ensure that the equipment is set for the correct local voltage. (All units are supplied for 230 VAC 50 Hz unless another standard is specifically requested in which case units will be clearly marked.)

Mains voltages may be accessible if covers, rear connector units or blank panels are removed. Covers, rear connector units and rear blank panels should only be removed when equipment is not connected to the mains and by suitably qualified service engineers.

Pre-Installation checks

On unpacking the equipment please check for any signs of transit damage. If any is found contact your carriers immediately as they may wish to inspect the equipment as well as the packaging.

If all appears well check the equipment against the packing/delivery note for any errors or omissions. If there are any please contact your distributor or local agent unless we have supplied you directly.

1.4 *Warranty*

DTL Broadcast Ltd (the company) supplied products are warranted against defects in materials and workmanship for a period of one year from the date of shipment. At its option, the company will repair or replace products that prove to be defective during the warranty period, provided they are returned to the company with advance notification freight prepaid. The company will continue to support these products after expiration of the warranty.

When a dealer supplies the company's products, that dealer should be approached initially if there are any warranty problems.

The company makes no other warranties, express or implied, as to the merchantability, fitness for a particular purpose, or otherwise. The company's liability for any cause, including breach of contract, breach of warranty, or negligence, with respect to products sold by it, is limited to repair or replacement by the company, at its sole discretion. This remedy is exclusive.

In no event shall the company be liable for any incidental or consequential damages, including loss of profits.

1.5 *EU declaration of conformity*

Declaration

We certify that the apparatus to which this declaration relates conforms to the requirements of the EMC and Low Voltage Directives.

Covering the following:

2600 range of modules in the 5AV2645 & 5AV2641 rack mounting frames and the 5AV2642 portable cases

Above rack mounting frames or portable cases containing any mix of 2600 modules installed in accordance with instructions in our User's Guide and with any vacant spaces filled with front and rear blank panels.

Applicable standards:

Emissions	EN 50081-1
Susceptibility	EN 50082-1
Safety	EN 60950



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2 *Frames*

5AV2645 2U frame, 5AV2641 1U frame & 5AV2642 portable case

Features

- The 5AV2645 2U rack mounting frame holds up to 9 modules and associated rear connector units.
- The 5AV2641 1U rack mounting frame holds up to 4 modules and associated rear connector units.
- The 5AV2642 portable case holds up to 2 modules and associated rear connector units.
- Different modules can be mixed within a frame. Each module requires an associated rear connector unit. Modules can be removed without disturbing installed rear connector units.
- The range is designed to provide optimum performance, reliability, packing density and features on a cost-effective basis.
- Frames have an IEC mains input socket.
- Units are supplied set for 230 VAC 50 Hz (unless specifically ordered for other mains supplies when they will be clearly marked accordingly.)