

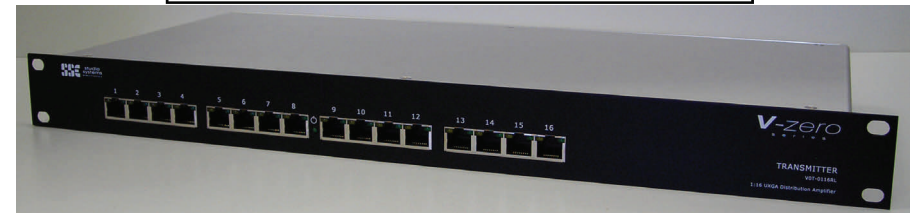
Local Distributor



V-zero

s e r i e s

V0T-0116R-L
1:16 UXGA CAT5
Distribution Amplifier



V0R-0101SAN
Receiver



USER GUIDE



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SPECIFICATION

CONNECTORS

VGA Input:	15-HD Plug	(V0T-0116R-L)
VGA Loop O/P:	15-HD Skt	(V0T-0116R-L)
VGA Output:	15-HD Skt	(V0R-0101SAN)

Power:	2.1mm Skt	(V0R-0101SAN)
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INDICATORS

Power ON:	Green LED	(BOTH)
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CONTROLS

EQ (sharpness) adjuster	(V0R-0101SAN)
GAIN (brightness) adjuster	(V0R-0101SAN)

PERFORMANCE

(Measured at receiver using 100m cable length)

Video (VGA)

Max. Resolution:	1600 x 1200@70Hz
Bandwidth:	150MHz (-3dB)
I/P Impedance:	75ohm
O/P Impedance:	75ohm
Level:	0.7Vp-p (R,G&B) TTL (HS&VS)

POWER

Transmitter	
Mains power	100-240VAC (V0T-0116R-L)
Fuse rating	2AT (V0T-0116R-L)

Receiver	
Voltage:	+24V.d.c. (V0R-0101SAN)
Current:	75mA (V0R-0101SAN)

ENVIRONMENTAL

Operating Temp.	0-45°C
Storage Temp.	-20°C to +70°C
Rel. Humidity:	0-90% non-condensing

PHYSICAL

Dimensions:	19" x 200 deep x (mm) 44 high (1RU) (excluding connectors)
Weight:	2kg (V0T-0116R-L) 150g (V0R-0101SAN)

ORDERING INFORMATION

V0T-0116R-L	1:16 19" Rack Transmitter
V0R-0101SAN	Stand-alone Receiver
CUBE-02	+24V 0.5A UK plug-top mains adaptor
PSU-402	+24V 0.5A Universal mains adaptor(2-pin IEC mains)
CAB-101/2	SVGA Cable, M/F, 2m

INSTALLATION ADJUSTMENTS

The only adjustments required are to set the screen brightness (GAIN) and the picture sharpness (EQ). This is done by adjustment of the GAIN and EQ rotary controls found on the rear panel of the VOR-0101SAN receiver.

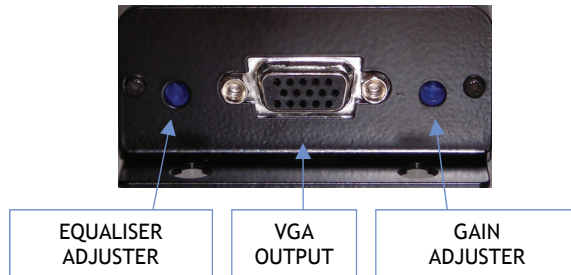
EQ – Start with the EQ adjuster set fully counter clockwise at its lowest setting. This adjustment is made for optimum picture sharpness. Cable lengths from 0m to over 250m can be made using this adjuster. Any signal with black text may be used for this adjustment. The procedure is to **slowly** increase the EQ adjuster clockwise until the right hand edge of the displayed characters show no sign of smearing. Over-adjustment of the EQ will cause colourisation of the characters before possibly turning off the screen.

GAIN – Start with the GAIN adjuster set to its mid-position. The display brightness may be adjusted for operator comfort or to match adjacent screens.

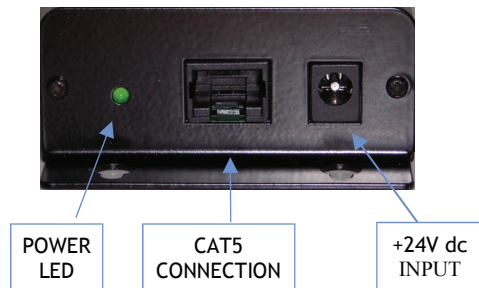
If the EQ adjuster is set too high and/or the GAIN adjuster is not set to its mid-position at the beginning of the set up procedure, the display may stay off due to detection circuits within the screen.

CONTROLS AND CONNECTIONS

VOR-0101SAN
REAR
PANEL



VOR-0101SAN
FRONT
PANEL



NOTICE

The information contained in this document is subject to change without notice.

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REGULATORY INFORMATION

Notice for the U.S.A.: FCC Statement

Federal Communications Commission (FCC) Radio Frequency Interference Statement (U.S.A. only)

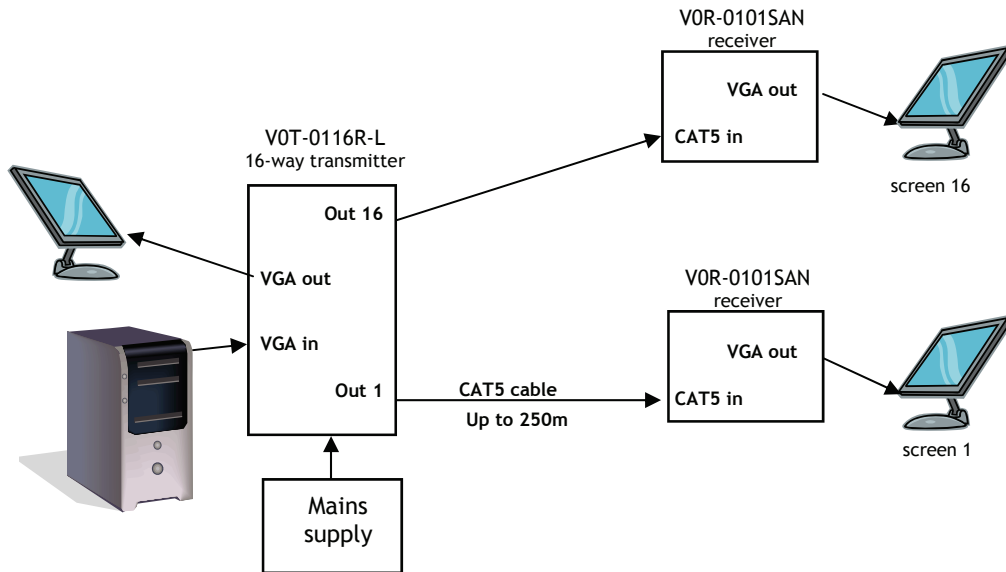
This equipment complies with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits provide reasonable protection against harmful interference in an industrial installation. When connected to a computing device, this equipment can radiate radio frequency energy and, if not installed and used in accordance with the instructions, can cause interference to radio frequency communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user can try to eliminate the interference by trying one or more of the following measures: -

- Relocate the receiving antenna.
- Move the equipment and computing device away from the radio or television.
- Plug the equipment and computing device into a different power outlet so that they do not share the same electrical circuit.
- Ensure that all connected peripherals are also FCC Class A certified.
- Ensure that only shielded cables are used to connect peripheral devices.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION: CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE TO THE FCC RULES COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

INTRODUCTION

The V-zero series of products from Studio Systems Electronics Limited use low cost, category 5 (CAT5) twisted-pair cable for long distance transmission of high resolution graphics video. CAT5, CAT5+ and CAT6 unshielded twisted-pair (UTP) or shielded twisted-pair (STP) cable may be used with no noticeable difference in performance. It is quite common practice to use the structured wiring of a building, together with its patching panels to complete the interconnection route between signal source and a remote screen, thus eliminating the need for new cable installation.



INSTALLATION

A basic VGA multi-point system consists of a VOT-0116R-L transmitter, together with up to 16 VOR-0101SAN receivers. The VOT-0116R-L transmitter is sited close to the VGA source, whereas the VOR-0101SAN receiver is sited close to the remote screen. The VOR-0101SAN does not need a mains power supply as it is powered from the VOT-0116R-L transmitter.

A single CAT5 cable is the only connection required between the units. **During the cable installation, ensure that the CAT5 cable is not laid alongside mains wiring or share the same ducting. Any physical crossover of CAT5 and mains cables should be done at 90° to one another. Failure to follow these precautions may result in patterning or interference from mains borne switching spikes becoming visible on the display screen.**

MAINS POWER SUPPLY

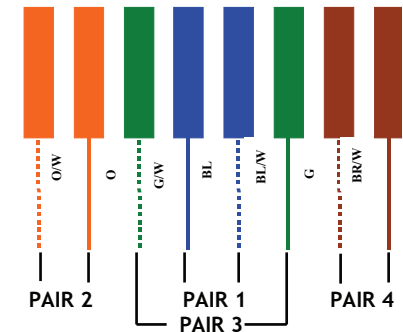
100–240VAC @ 50/60Hz. Fused at 2AT (anti-surge)

CAT5 CABLE CONNECTIONS

The connector used for the CAT5 connection to all units is the industry standard RJ45. This is an IDC (Insulation Displacement Connector) and a special tool is required to make the connector terminations. The CAT5 cable is available in screened or un-screened versions. The V-series equipment has been designed to work with the lower cost un-screened CAT5 cable although either types can be used.

The CAT5 connections to the RJ45 connector are shown below which conforms to the industry standard.

RJ45 CONNECTIONS VIEWED AT PLUG TOP



Terminated CAT5 cable

