

# Skew62

## Quick Installation Guide



**Please Note:** **Skew62** is designed to eliminate the 'skew effect' and may be used with **ANY** brand of Cat5/6 KVM or VGA extender product. **XSQ™ technology** is included in all CatX 300m receivers.

**Important:** There are many package options available with **CatX** products. For a full list of all the appropriate cables and accessories supplied with each **CatX** product, please see the back page of this **Quick Installation** guide



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# Installation

## Unit Diagrams

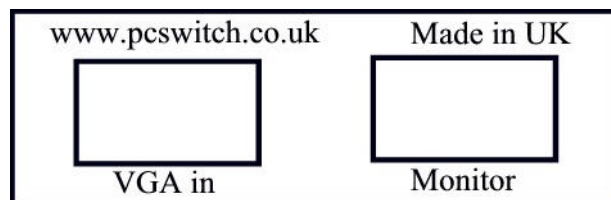
### Skew62 (Front panel)



S & Q	Skew correction controls
+5V	+5V DC socket (centre pin positive)

Fig 2.1

### Skew62 (Rear panel)



VGA in	Male 15way HDD connector
Monitor	Female 15way HDD connector

Fig 2.2

### Connecting to the power supply

Skew62 requires a separate power supply.

### Connecting Skew62 to any brand of Cat5/6 extender

Skew62 is designed to connect to any brand of Cat5/6 extender. This is because it connects to the VGA output of **ANY** receiver unit.

The Output display may then be connected to the 'Monitor' output connector of the Skew62.

### Skew62 Controls

When the **Skew62** and Cat5/6 **Receiver** unit have been connected to each other, and the Skew62 unit is powered, the units are ready for operation.

To make the adjustment of the output Video display convenient for the installer, the **Skew62** should always be connected to the Cat5/6 receiver unit.

## Skew correction controls

The 'S' and 'Q' 'Skew' correction controls can be adjusted by hand or using a small screwdriver.

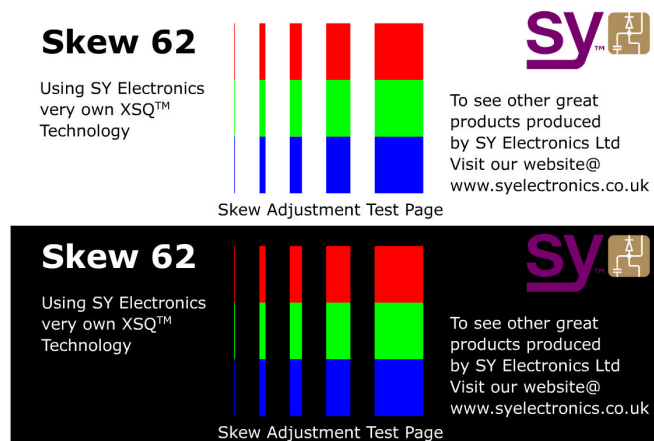
### Skew Correction using XSQ™ technology

CAT 5e and CAT 6e cables contain 4 twisted pairs, which are used to transmit the VGA signal from the Tx to the Rx units of CatX. Three of the four pairs are used to transmit the Red, Green and Blue components of the VGA signal. There is a difference in the number of twists per unit length of each pair in a UTP cable. This causes a 'shift' between the different colours to the right or left, when displayed on the Monitor attached to the Rx unit. This effect is most likely to occur when using Cat6 cable over longer distances (greater than 120m). For this reason Skew correction controls are only included on 300m **CatX Rx** units

S.Y.Electronics Ltd has created **XSQ™ technology** as the skew correction system to eliminate the 'skew' effect. **XSQ™ technology** uses two controls (**S** & **Q**) for a quick and simple way to eliminate any skew effect on your output display.

### Using the Skew control

In order to ensure that you have correctly adjusted the skew controls, it is highly recommended that you download our bitmap test pattern (Fig 2.6) from the [www.pcswitch.co.uk](http://www.pcswitch.co.uk) website and use your CatX products to output this on a display attached to an **Rx** unit. For the best results set the output display to 1024 x 768 at 72Hz.



### Bitmap test pattern

Begin by turning the **S** of the skew adjustment controls to the left and right and note which colour on the test pattern (Red, Green or Blue) shifts to the left or right as you do so. Repeat this for the **Q** control.

Now you can use the S and Q control in turn to accurately align the three colours (red, Green and Blue) so that the left and right edge form a perfect straight line.

Once this adjustment has been made, the test pattern should look the same as it does in Fig 2.1 and it should only be necessary to alter these controls if the units are reconnected using a different length of CAT5/6 cable.

# Appendix D - Package Contents

## Cat5/6 VGA extender product options

CatX packages (Tx and Rx sets): -

**CatX Video (CatX Video Tx & Rx)**

**CatXQ Video (CatX Video Tx & CatXQ Rx)**

**CatX Video Lite (CatX Video Lite Tx & CatX Video Lite Rx)**

1 x 2.0m Cat5 patch lead  
1 x 12V DC power supply  
1 x VGA (male to female) 0.5m cable  
1 x Quick Installation guide

Single Receiver Packages

**CatX Video Rx**

**CatX Video Rx 2**

1 x Quick Installation guide only  
No PSU or other cables are included

All Twin **CatX Rx** (2 receiver units) packages: -

**Twin pack CatX Video Rx**

**Twin pack CatX Video Rx 2**

1 x Quick Installation guide  
No PSU or other cables are included

All Single **CatXQ Rx** (receiver) unit packages: -

**CatXQ Video Rx**

**CatXQ Video Rx 2**

1 x 12V DC power supply  
1 x Quick Installation guide

All Twin **CatXQ Rx** and **CatXQ Video Rx 2** (receiver) unit packages: -

2 x 12V DC power supply  
1 x Quick Installation guide

## Cat5/6 VGA Distribution product options

All multiple transmitter packages: -

**CatX Video Tx 2**

**CatX Video Tx 4**

1 x 2.0m Cat5 patch lead  
1 x 12V DC 0.42A power supply  
1 x VGA (male to female) 0.5m cable  
1 x Quick Installation guide

**CatXQ Video Tx 8**

1 x 2.0m Cat5 patch lead  
1 x 12V DC 1.2A power supply  
1 x VGA (male to female) 0.5m cable  
1 x Quick Installation guide