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	CURRENT REVISION		
REV	DESCRIPTION	DATE	APPROVED
-	Initial release	February 28, 2019	BM



MODEL 5510



MODEL 5538

PROPRIETARY INFORMATION OF

Daisy Data Displays, Inc.

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QUICK INSTALL / REFERENCE DOCUMENTATION

ALL SHEETS MAINTAINED AT THE SAME REVISION LEVEL

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Quality Control	Matthew Ram	iskow	February 28, 2019		
Administration	Michael Hada	way	February 28, 2019	KVM QUICK IN	STALL/SETUP
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Black Box KVM Quick Install

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1.0 GENERAL INFORMATION

1.1 Objective

This procedure is to assist the installation of an FM Approved Daisy Data Displays KVM Extender kit (Local-ONLY) to an existing Daisy Data "Aproved" Remote KVM Switch.

1.2 General Repair/Installation Requirements

Repairs and installation of this unit need to be performed by authorized personnel in accordance with the International Electrotechnical Commission (IEC), National Electrical Code (NEC) (NFPA), European Committee for Electrotechnical Standardization (CENELEC), Canadian Electrical Code (CEC), and any applicable local code regulations. Contact your local Authority having jurisdiction (AHJ) for assistance in field wiring in accordance with local code regulations. This unit incorporates static sensitive components which need to be handled carefully; be sure to follow all ESD safety procedures.

IMPORTANT SERVICE NOTE

Any service required on the FM Approved "Remote" KVM Switch must be done by qualified Daisy Data Displays Service personnel.

WARNING: EXPLOSION HAZARD

DO NOT DISCONNECT EQUIPMENT WHILE THE CIRCUIT IS LIVE OR UNLESS THE AREA IS KNOWN TO BE FREE OF IGNITABLE CONCENTRATIONS.

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1.3 Cable Requirements

1.3.1 PS/2 Keyboard & Mouse Cables

Local KVM switches that are equipped with PS/2 Keyboard and mouse ports require PS/2 cables with standard 6-pin mini-DIN connectors connect the KVM switch to the local PC.

These cables (max. 6' length) provide 5V PS/2 power to the local KVM switch.



IMPORTANT

PS/2 Cables cannot exceed 6' in length to ensure a constant 5V power supply to the local KVM switch.

NOTE: Unexpected operation could occur if a low quality USB-to-PS/2 adapter is used to make the connection between a USB port and PS/2 cable.

1.3.2 USB Cables

When using USB cables locally, it is recommended not to exceed 10' in length to maintain proper signal strength from device-to-device. Depending upon the application and/or device, cable length could be longer.

In addition, powered USB connections may power each (local or remote) KVM Switch. If they do not supply enough power for the KVM switch to operate properly, the factory specified power adapter for each switch must be used for the KVMs to work properly.



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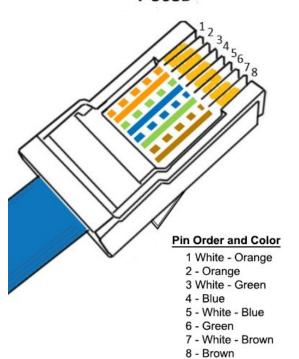
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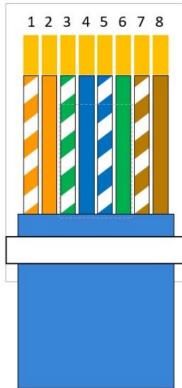
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1.3.3 RJ45 Connectors (Pinout)

RJ45 Pinout T-568B





1.3.4 RJ45 Cables

RJ45 interconnection cables are used to connect the local KVM with the remote KVM. To connect the Local and Remote Units you will need CATx (any category 5, 5e, 6 or higher) cable terminated with RJ45 plugs.

NOTE: Do NOT mistake network or Ethernet cable requirements when selecting RJ45 cable for the local-to-remote KVM connection. Display resolution requirements will dictate the throughput needed by the RJ45 cable.

Interconnect cables must be solid-core type. Stranded patch cable will give poor results over longer distances. The pairing of the cable and pinning of its connectors should normally be in accordance with EIA-568B.

Display resolution and the amount of data transmitted between the remote and local KVM will dictate the cable type and length.

The higher the RJ45 cable rating (type -5, 5e, 6, 6a, 7 or higher), the longer the cable length may be used due to less signal degration and external electrical noise interference.



Consult your specific KVM User Manual specifications and configuration options. Some KVMs incorporate special settings to accommodate longer cables, and signal adjustments to maintain the best display quality over longer, electrically noisey cable runs.

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2.0 BLACK BOX KVM CONNECTIONS (LOCAL)

2.1 Daisy Data Model 5510 (Black Box Model ACU1008A)

It is recommended that you download and review the <u>Black Box CAT5 KVM Extender User Manual</u> from there website. It contains specific information about setting up the Local KVM Switch:

- Interconnect Cable Requirements
- Local Unit Installation
- Video Configuration/Adjustments
- Troubeshooting & FAQ



RJ45 Interconnection Cable from Local KVM to Remote KVM

Recommended RJ45 Remote Interconnect Cable Length

Maximum Cable Lengths

CAT 5

CAT 5e

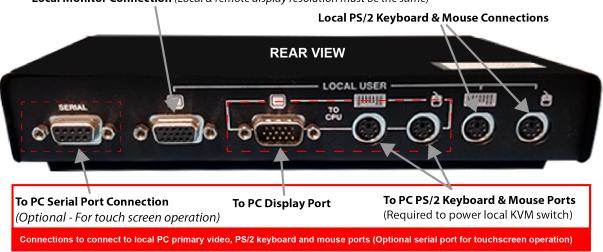
CAT 6

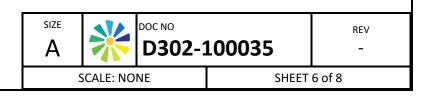
CAT 7

300m

Local Monitor Connection (Local & remote display resolution must be the same)

CAT 7a





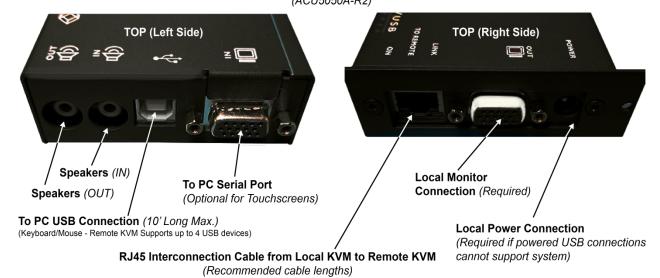
2.2 Daisy Data Model 5538 (Black Box Model ACU5050A-R2)

It is recommended that you download and review the <u>ServSwitch Wizard USB KVM Extender</u> <u>with Audio</u> from there website. It contains specific information about setting up the Local KVM Switch:

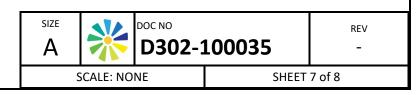
- Interconnect Cable Requirements
- Local Unit Installation
- Video Configuration/Adjustments
- Troubeshooting & FAQ



MODEL 5538 BLACK BOX KVM CONNECTIONS (ACU5050A-R2)



Maximum Cable	e Lengths
CAT 5	250m
CAT 5e	250m
CAT 6	300m
CAT 7	300m
CAT 7a Patch	200m



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