# LCD KVM Selection Guide

Space-optimizing KVM solutions for server rooms
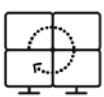
# LCD KVM Consoles and Switches
# Space-optimizing KVM solutions for server rooms

LCD KVM Consoles and Switches are space-optimizing KVM solutions for server rooms and are specifically designed for short rack applications, including limited-space telecoms, broadcasting, and surveillance server rooms.

The benefits of using LCD KVM consoles and switches in your server room or other rack applications are varied, and include:

| | | |
|---|---|---|
| | **All-in-One Design** | The LCD panel, keyboard, and touchpad are integrated into a 1U rack-mountable sliding housing |
| | **Control Attached Servers Directly** | Easily and conveniently control servers through LCD KVMs |
| | **Multiplatform Support** | LCD KVMs support PC*, Mac and Sun |
| | **Supports Popular Video Interfaces** | LCD KVM switches can connect to DP**, HDMI, DVI, and VGA |
| | **LED Illumination** | Exclusive LED illumination lights up the keyboard and touchpad for better visibility in low-light conditions |
| | **Easy Installation** | Optional Single-Person Easy Installation Rack Mount Kits are also available |
| | **Multi-View Display** | Controls up to four video sources on one screen with display modes including Quad View, Picture in Picture (PiP), Picture by Picture (PbP), and Picture on Picture (PoP) |

*Emulate Mac and Sun function keys via PC keyboard

**SPHD Model can support by or via CV190

ATEN LCD KVM Solutions are divided into three categories:

- **LCD KVM Consoles**: Single-port KVM consoles that integrate a keyboard, mouse, and monitor; users can choose compatible KVM Switches for expansion.
- **LCD KVM Switches**: All-in-one design that integrates a keyboard, mouse, monitor, and 4/8/16-port KVM switch.
- **LCD KVM Over IP Switches**: LCD KVM Switches with remote-access functionality.

In addition, there are three KVM interfaces:

- **SPHD** (Special High Density connector): VGA, DP
- **Standard video connectors**: VGA, DVI, and HDMI
- **RJ-45 multi-interface**: VGA, DVI, HDMI, DP, serial*, and Sun

*Serial is only available with KVM over IP models

## The Types of LCD KVM Solutions

| Front View | |
|---|---|
| **LCD KVM Console** | **LCD KVM Switch** |
|  |  |
| **Rear View** | |
|  |  |
| **Connects to a KVM Switch or 1 server directly** | **Connects to 4/8/16 servers directly** |

# Recommended Models by Situation

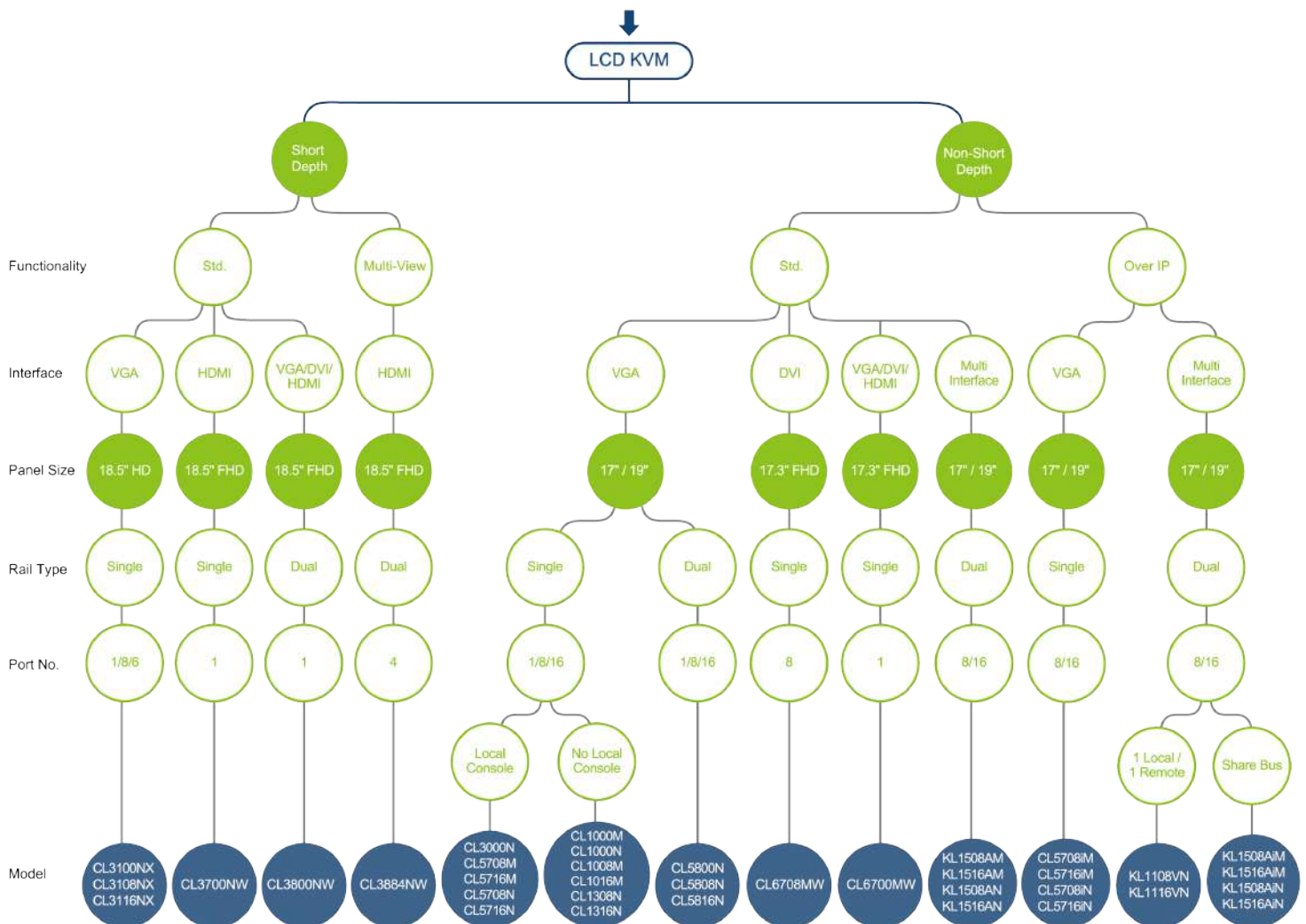| | | |
|---|---|---|
| "My company's servers have multiple video interfaces, including VGA, DP, and HDMI and we would like to manage them with one LCD KVM. What do you recommend?" | "We want to set up a server rack to monitor the status of our servers but the server room space is limited and we can't easily slide out an LCD KVM. Which product should I choose?" | "I want a short-depth LCD KVM with a DVI interface for my server room; what do you suggest?" |
| **KL Series or LCD KVM console with KH15 Series KVM switch** | **Dual rail models such as KL Series, CL3800NW, CL5800N or CL3884NW** | **CL3800NW is built with VGA, DVI and HDMI video interfaces** |
| "I would like to have widescreen and FHD-resolution panels for my company's LCD KVM solutions." | "Because of our hybrid work policy, we need LCD KVM switches with remote access to our company's servers that can also record user operations for security reasons. Which model do you recommend?" | "We have to monitor multiple sources at the same time; do you have an LCD KVM with multi-view function?" |
| **CL3800NW, CL3700NW, CL3884NW, CL6700MW, CL6708MW** | **CL5708iM, CL5716iM, CL5708iN, CL5716iN, KL1108VN, KL1116VN, KL1508AiM, KL1516AiM, KL1508AiN, KL1516AiN** | **CL3884NW** |
| "My client needs an all-in-one LCD KVM switch with widescreen." | "We have servers in different racks; which LCD KVM works best for this?" | "I need a LCD console that can be operated in moving vehicles or on factory floors where vibrations are high." |
| **CL3108NX, CL3116NX, CL6708MW** | **The KL series supports distances up to 50 meters** | **CL3000N passed MIL–STD–810G Vibration Resistance Testing** |

# Selection Tree



**LCD KVM**

| | Short Depth | | | | Non-Short Depth | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|

**Functionality**

Short Depth: Std. | Multi-View
Non-Short Depth: Std. | Over IP

**Interface**

| VGA | HDMI | VGA/DVI/ HDMI | HDMI | VGA | DVI | VGA/DVI/ HDMI | Multi Interface | VGA | Multi Interface |
|---|---|---|---|---|---|---|---|---|---|

**Panel Size**

| 18.5" HD | 18.5" FHD | 18.5" FHD | 18.5" FHD | 17" / 19" | 17.3" FHD | 17.3" FHD | 17" / 19" | 17" / 19" | 17" / 19" |
|---|---|---|---|---|---|---|---|---|---|

**Rail Type**

| Single | Single | Dual | Dual | Single | Dual | Single | Single | Dual | Single | Dual |
|---|---|---|---|---|---|---|---|---|---|---|

**Port No.**

| 1/8/6 | 1 | 1 | 4 | 1/8/16 | 1/8/16 | 8 | 1 | 8/16 | 8/16 | 8/16 |
|---|---|---|---|---|---|---|---|---|---|---|

Under VGA Single 1/8/16: Local Console | No Local Console
Under Multi Interface Dual 8/16 (Over IP): 1 Local / 1 Remote | Share Bus

**Model**

| CL3100NX CL3108NX CL3116NX | CL3700NW | CL3800NW | CL3884NW | Local Console: CL3000N CL5708M CL5716M CL5708N CL5716N | No Local Console: CL1000M CL1000N CL1008M CL1016M CL1308N CL1316N | CL5800N CL5808N CL5816N | CL6708MW | CL6700MW | KL1508AM KL1516AM KL1508AN KL1516AN | CL5708iM CL5716iM CL5708iN CL5716iN | 1 Local/1 Remote: KL1108VN KL1116VN | Share Bus: KL1508AiM KL1516AiM KL1508AiN KL1516AiN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|

# Applications



Server Rooms



OB Vans



Factories



Surveillance

# LCD KVMs Summary

| Panel Size | | 17" | 17.3" | 18.5" | 18.5" | 19" |
|---|---|---|---|---|---|---|
| Naming | | M | MW | NX | NW | N |
| Resolution | | 4:3 1280x1024 | 16:9 1920x1080 | 16:10 1366x768 | 16:9 1920x1080 | 4:3 1280x1024 |
| Model | LCD KVM Console | CL1000M | CL6700MW | CL3100NX | CL3800NW, CL3700NW | CL1000N, CL3000N, CL5800N |
| | LCD KVM Switch | CL1008M, CL1016M, CL5708M, CL5716M, KL1508AM, KL1516AM | CL6708MW | CL3108NX, CL3116NX | CL3884NW | CL1308N, CL1316N, CL5708N, CL5716N, CL5808N, CL5816N, KL1508AN, KL1516AN |
| | LCD KVM Over IP Switch | CL5708iM, CL5716iM, KL1508AiM, KL1516AiM | | | | CL5708iN, CL5716iN, KL1508AiN, KL1516AiN, KL1108V, KL1116V |

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## About ATEN

ATEN International Co., Ltd., established in 1979, is the leading provider of AV/IT connectivity and management solutions. Offering integrated KVM, professional AV, and intelligent power solutions, ATEN products connect, manage, and optimize AV/IT equipment in corporate, government, education, broadcasting and media, and transportation environments. ATEN has 630+ issued international patents and a global R&D team that produces a constant stream of innovative solutions, resulting in a comprehensive portfolio of products available worldwide.