REM
Fiber Solutions

SCALA - LT
PTZ HYBRID / Fiber INTERFACE

PTZ Hybrid or Fiber-Pair Link   Single or Dual Channel

Canon
Panasonic
Sony

Scala-LT CCA

Cambox Camera Adapter [CCA]

Cambox Control Unit [CCU] *(single channel with 12G Option and SMPTE showed)*
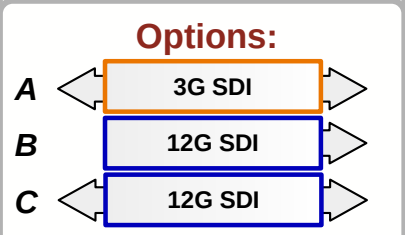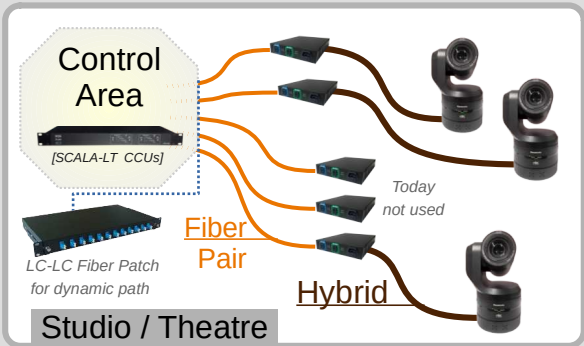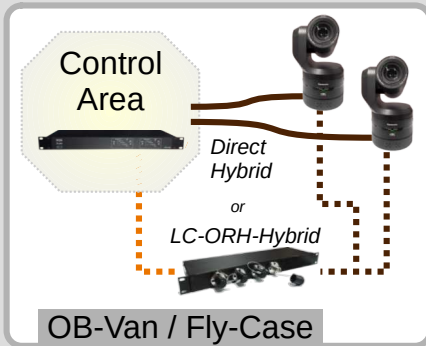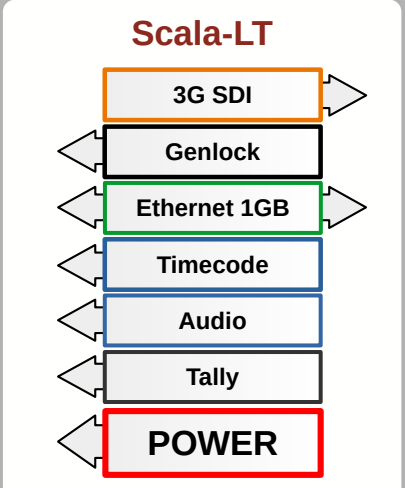
Camera Control Unit *(Dual Channel Full)*

Scala-LT Description

Scala LT is the light version of Scala Modular System.
It has been developed to use High End PTZ Cameras via hybrid cable (Power+Fiber) handling all necessary signals required in live events.
Typical application are Fly-Cases, OB-Vans and Theatres installation
Four SDI options (added to original SDI 3G):
   [3G BiDir] or [12G] or [12G BiDir] or [Free Fiber]- (usable for ST 2110 / HDMI /..)
Two possible Hybrid Connectors: SMPTE 304 (Lemo) or Neutrik DUO directly mounted on CCU or on a Remote Hybrid Power Unit
(ORH or SHED with LC/LC on CCU) allowing a very flexible installation
Scala LT may be also ordered with hybrid connectors directly mounted on CCU

Control Area
Direct Hybrid
or
LC-ORH-Hybrid
OB-Van / Fly-Case

Control Area
[SCALA-LT CCUs]
LC-LC Fiber Patch for dynamic path
Fiber Pair
Today not used
Hybrid
Studio / Theatre

Optional Remote Hybrid Power Units
Manage power to CCA/ PTZ

1RH Wall Box / SHED (½RH)
Single Channel Hybrid Interface
ORH Unit
Host up to 4Ch Hybrid Interface (1RU)

HPU with Lemo and rugged LC-LC input (Neutrik DUO Lite)

ORH with four LEMO

PTZ / CCA ⟺ **CCU**

Scala-LT

| 3G SDI |
| Genlock |
| Ethernet 1GB |
| Timecode |
| Audio |
| Tally |
| **POWER** |

Options:

A	3G SDI
B	12G SDI
C	12G SDI

For Full Featured Version see **SCALA** *(Modular)*

More Videos
Audios (Mic)
and Data
Configurable

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SCALA-LT   Case Studies - Applications

1 **Fiber Pair to CCA with local power**

CCU Channel → Fiber Pair →
CCA Power Brick ►

2 **Hybrid Cable to CCA**

CCU-H Channel ← Sony, Panasonic, Canon JVC, others.. → Hybrid Cable

3 **Fiber Pair to Wall Box then Hybrid Rugged Cable to CCA** *(devices near PTZ)*

CCU Channel ↔ Fiber Pair ↔ WallBox or ORH
Main VAC ►
Hybrid Cable ↔
Opt. A 3G BiDi

4 **Structured (Multiple System)**

Control Room

Main Theatre

Studio 2

Fiber Patch
or
MFP(1)

Conference Room 1

Conference Room 2
Just a Fiber Pairs and a local main then use flying HPU and Hybrid Cables or a simple fiber pair with Scala power brick

Unfixed HPU

or

Scala-LT   Technical

Active CCU Status LEDs
CCA Powered *[CCA connected, handshaked, Power Enabled, Power supplied to camera]*
Eth Data *[Ethernet active (flashing)],*
422 Data *[Data present on RS422 bus (flashing)]*
Tally *[Tally line activated]*

Active CCU Controls
CCA Power Enables *[Power saving]*

CCA Status LED: CCA Powered

Camera Adapter Signals

Video Signals:	SDI Input 3G [BNC] and Rerererence Output (Composite) [BNC]
Audio Signals:	1 Balanced + 1 Unbalanced Analog Audio Output (Line Level) [DB9]
Data Signals:	Serial Data Output (RS422) [RJ45] , Ethernet 1GB [RJ45], Tally Output [DB9]
Power :	DC Out 12V 2A

Control Unit Signals

Video Signals:	SDI Output 3G [BNC] and Rerererence Input (BB, Composite) [BNC]
Audio Signals:	1 Balanced + 1 Unbalanced Analog Audio Input (Line Level) [DB9]
Data Signals:	Serial Data Input (RS422) [RJ45] , Ethernet 1GB [RJ45], Tally Input [DB9]

Power Consumption:	**15** W per channel without Camera load **MAX Camera Load:** 12 Volts-70W
CCA Mechanical:	Dimension: W x H x D (182, 40, 219 mm) Weight (1,9 Kg)
	Fixing holes for camera plate adapters on Top / Bottom *(default AW-UE150 on top)*
CCU Mechanical:	Dimension: 1RU Depth 300mm Weight (1Ch = 3,1 Kg) (2 Ch =3,9 Kg)

CE

Connections

CCU DB9 Pinout:
1) Audio 1 In +
2) Audio 1 In -
3) Audio 2 In Unbal
4) 422 RX-
5) Tally Input
6) Ground
7) Ground
8) Ground
9) 422 RX+

CCA DB9 Pinout:
1) Audio 1 Out +
3) Audio 2 Out+
4) NC
6) Audio 1 Out -
8) Audio 2 Out-
Others Ground

CCA RJ45 Pinout:
1) TX-
2) TX+
3) Ground
6) Tally Out (CCA Only)
Others NC

CCA DC-Out Pinout:
1,2,5) +12V
3,4) Ground