

Encoder/Streamer TERADEK Cube 105 configuration

Application note



Version 001A
Sept 2018

TABLE OF CONTENTS

1	INTRODUCTION	4
2	TEST CONFIGURATION	5
3	TERADEK CUBE 105 CONFIGURATION	6

1 Introduction

The purpose of this document is to show an example of configuration TERADEK Cube 105 tested at Innes premises.

2 Test configuration

SMA300 device

- video output: HDMI

- Resolution tested
 - HD: 1280x720 60Hz CEA-861
 - Resolution not tested
 - Full HD: 1920x1080
- audio output: Jack Stereo

BlackmagicDesign MiniConverter HDMItoSDI device

- video input: HDMI
- video output: SDI



TERADEK CUBE-105 device

- video input: SDI (75 ohms BNC cable)

Warning : in the Full HD resolution, the TERADEK CUBE-105 is limited to the input resolution 1080i 60Hz and 1080p 30Hz
- audio input: Jack Stereo
- output: Ethernet / Streaming RTSP




DMB400 device

- input: ethernet / playing RTSP stream

3 TERADEK Cube 105 Configuration

About This Device



Cube-105

Serial Number: 10507658
Firmware Version: 7.3.13r28688
Hardware Version: 2.0
Recovery Version: 2

unable to reach update server.

Encoder Information

Codec Status	
Heartbeat:	660352
Video Frames (Captured/Null/Errors):	58274 / 0 / 0
Audio Frames (Captured/Failed/Overflow):	0 / 0 / 0
Encoder Load:	HW: 43% SW: 8%

Encoder 1 Status	
Video Frames Encoded:	58384
Current Video Bitrate:	7732 kb/s
Video Frame Rate:	50.125427
Base QP:	27
Audio Frames Encoded:	54741
Current Audio Bitrate:	228 kb/s

Refresh

Restart Video

Network Configuration

Network Settings

Hostname:

Current Gateway: 192.168.69.254

Current DNS Server: 192.168.69.253

Current Domain: Unavailable

Wired

USB Modem

IP Address Mode: ☐ Dynamic(DHCP) ☒ Static

IP Address:

Subnet Mask:

Default Gateway:

DNS Server:

Search Domain:

Link Speed:

MTU:


MAC Address: D8:80:39:68:4D:A1

Device Settings

Audio/Video Input Settings

Video Input

Video Input Mode: SDI

Detected Resolution: 720p50 

Video Input Resolution:

Deinterlacer:

Audio Input

Audio Input Mode:

Audio Input Level:

SDI Ancillary Data

H.264 SEI Insertion ⓘ :

Encoder Settings

Primary Encoder
Quickview Encoder

Video Bitrate (bps)
9000000

Audio Bitrate
256 kbps

Output Resolution: ☒ Auto ☐ Manual
720p 50

Key Frame Interval
1 sec

Text Overlay: ☐ Enabled ☒ Disabled
Channel 1
☐ Show Time With: Frames

Aspect Ratio: ☒ Use Square Pixels
Auto

Advanced Encoder Options

Caching (range: 70-1000): 300 ms ⓘ
Intra Refresh Mode: Disabled
Compression Profile: High
Frame Structure: Frame
Audio Sample Rate: 48000 Hz
SEI Timing: Enabled
Increasing Timestamps: Disabled ⓘ

Rate Control Options

Rate Control Mode: Auto
Max Transmission Rate: 10.00 Mbps
Static Scene Detection: Disabled ⓘ
Complexity Detection: Enabled ⓘ
Adaptive Framerate: Disabled
Low Bitrate Mode: Auto

Stream Settings

Primary Stream
Quickview Stream

Stream Application
Stream Mode: RTP/RTSP

RTSP Settings
RTSP Port: 554
Max Clients Allowed: 10

Authentication
☐ Enabled ☒ Disabled


RTSP & RTP over HTTP
☐ Enabled ☒ Disabled

Video Stream Output

The streaming video on this device can be accessed using the following links:

Primary (RTSP)

RTSP: rtsp://192.168.69.90/stream1

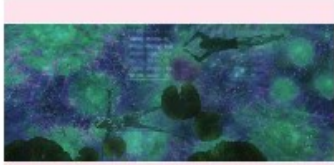


[Home](#)
[Info](#)
[System](#)
[Network](#)
[Video Setup](#)
[Cloud](#)
[Logout](#)

Cube 105 07658's Dashboard

Current Settings

Video



Video Input: 720p50 (auto) Analog Audio

Encoder Settings: 720p50 9.00 Mbps 256 kbps

Network

Friendly Name: Cube 105 07658

Wired: ● 192.168.69.90

USB Modem: ● Not Installed

Primary (RTSP)

RTSP: [▶](#)

Primary Stream Configuration

Preset Mode

Longer Range
Higher Video Quality

Custom Mode

Encoder Resolution	Video Bitrate	Audio Bitrate
Auto (720p) ▼	Auto (50) ▼	9.0 Mbps ▼
		256 Kbps ▼

[more se](#)