

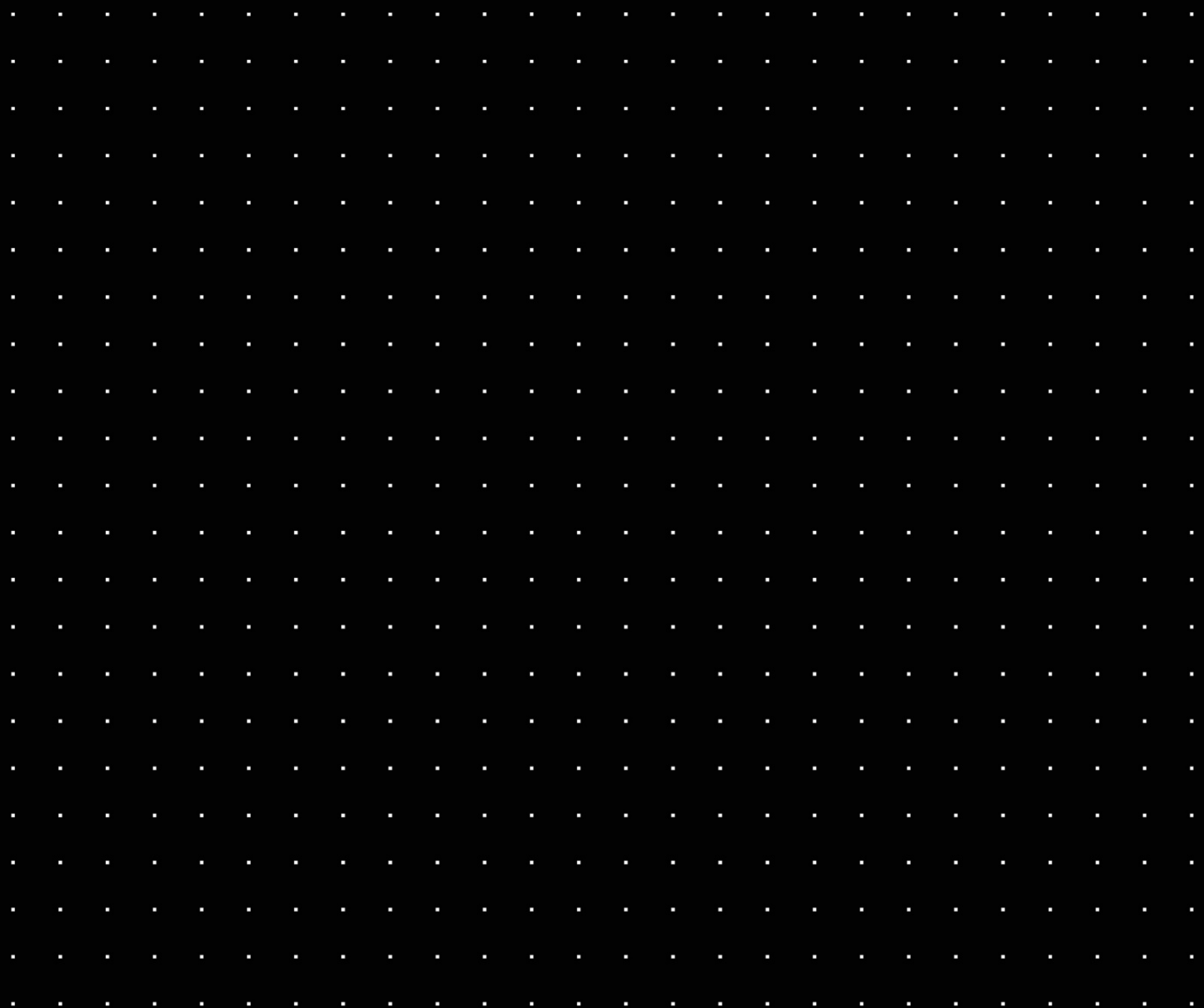
GEUTEBRÜCK

A&E Specifications

Recorder / Computer Platform  
G-ST 8000+/2U

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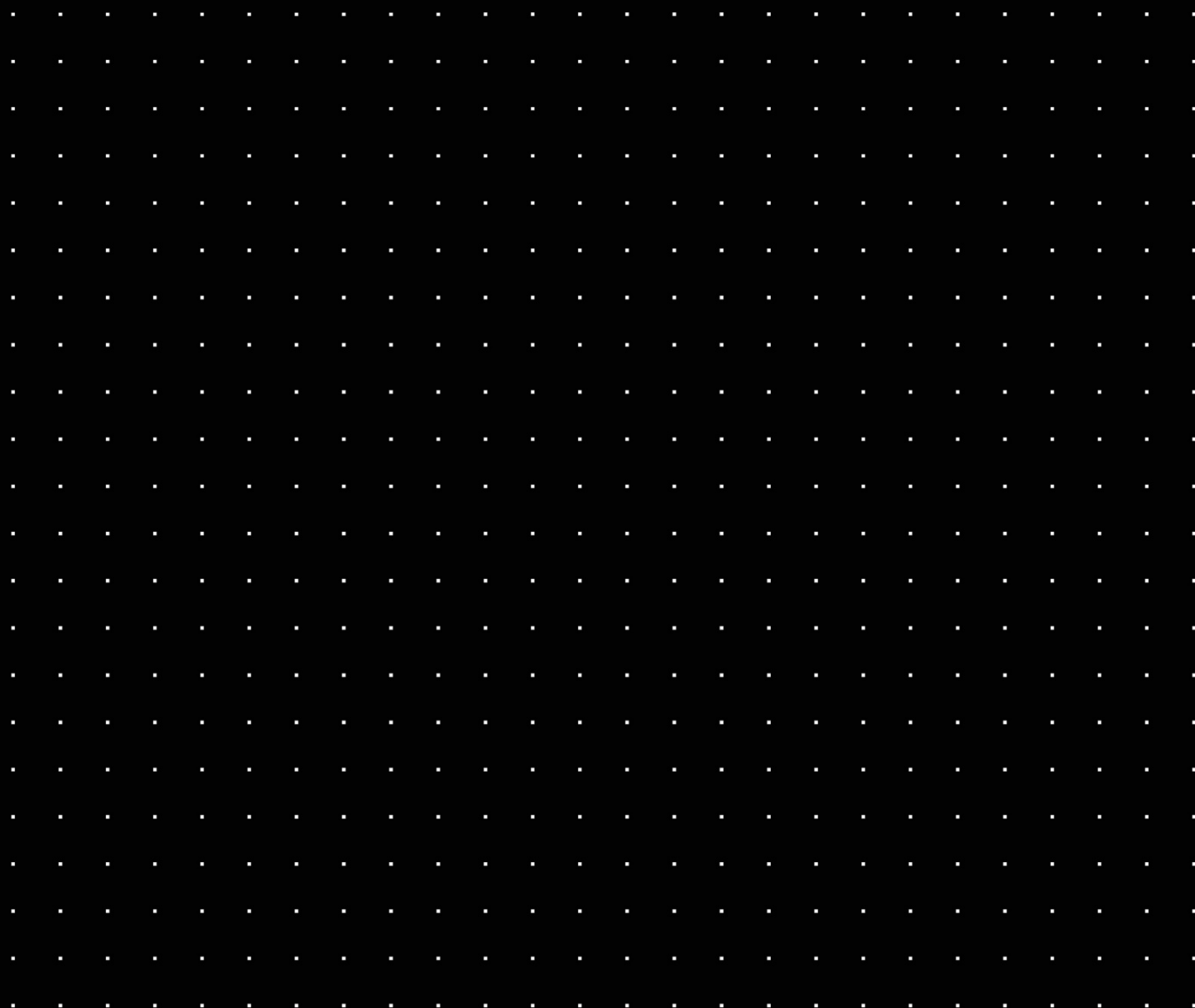
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# Recorder / Computer Platform | G-ST 8000+/2U

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## 1 General

- a. The appliance used is a standard platform which is regularly further developed and used in the manufacturer's systems.
- b. The manufacturer shall have at least 40 years experience in the manufacture of CCTV components and at least 20 years experience in the development and worldwide operation of Video Management Systems.
- c. The manufacturer's warranty shall be valid during a minimum of 36 months beginning with date of delivery.
- d. The manufacturer optional shall be able to offer a warranty extension of 2 years.
- e. A technical hotline provided by the manufacturer or one of his representatives shall be available during normal workdays.
- f. The manufacturer offers regular maintenance of the system, individually adapted to the user, by trained specialists worldwide.
- g. The manufacturer shall be able to offer standardized, staggered patch management packages in terms of performance and function that avoid discrepancies between Windows updates, the Video Management Software and the hardware used at an early stage.

### 1.1 Acronyms and Definitions

- a. DVR            Digital Video Recorder
- b. NVR           Network Video Recorder
- c. HU            Hight Unit (19 inch standard)

d. CPU	Central Processing Unit
e. GPU	Graphics Processing Unit
f. GB	Gigabyte
g. TB	Terabyte
h. HDD	Hard Disk Drive - storage unit
i. SSD	Solid State Hard Drive - storage unit
j. iSCSI	Internet Small Computer Systems Interface
k. SAS	Serial Attached SCSI
l. RAID	Redundant Array of Independent Disks
m. SATA	Serial ATA (Serial AT Attachment)
n. DVI-D	Digital Visual Interface (Digital)
o. USB	Universal Serial Bus

## 2 Technical Specifications

### 2.1 Basic Specifications

- a. The recorder / computer platform shall be specifically designed to meet the requirements of the manufacturer's software packages.
- b. The housing shall consist of an industrially series produced robust metal housing.
- c. When operating as NVR, the device shall be able to process up to 128 camera channels with its performance.

### 2.2 Mechanical characteristics

- a. The dimensions of the housing shall be 482mm x 89mm x 673mm (W x H x D).
- b. According to the 19 inch standard, the housing shall be 2 height units (HU) high.
- c. The weight of the fully equipped unit shall be 23.6 kg.

## 2.3 Technical features

- a. The processor of the recorder/computer platform shall correspond to the CPU type INTEL QuadCore XEON Prozessor > 3 GHz inside or better.
- b. The graphics adapter should allow GPU acceleration.
- c. The current version of the Windows 2016 Server Essentials for Embedded Systems (64-bit) operating system shall have been installed and tested at the factory.
- d. The operating system shall be installed on a separate hard disk (SSD, 128 GB).
- e. The recorder / computer platform shall have 8 hard disk slots for 3.5" RAID hard disks (SATA3).
- f. It shall be possible to use external storage systems (SAS, iSCS RAID).
- g. The main memory shall consist of 4 x 4 GB DDR4 ECC SDRAM.
- h. The device shall have 2 Ethernet interfaces (10/100/1000 base-TX).
- i. The device shall have the following USB interfaces:
  - 4 x USB 2.0 (rear)
  - 1 x USB 3.0 (front side)
- j. In addition, a RS-232 serial interface shall be available.
- k. A DVI-D and 2 display ports shall be provided for connecting monitors.
- l. To connect the keyboard and mouse, USB / PS2 ports shall be provided on the back of the device.
- m. The device shall have a stereo audio output (line out, phone jack 3.5 mm).
- n. It shall be possible to process these audio formats: G.711 (PCM) A-law,  $\mu$ -law at 8 kHz, uncompressed PCM up to 16 kHz, AAC.
- o. 16 internal floating input contacts, sabotage monitored internally (can be switched off), shall be usable.
- p. 8 internal relay outputs (24 V DC, 1 A) shall be available as output contacts.
- q. The power supply shall be provided by a built-in redundant power supply unit with 110 - 240 V AC / 60 - 50 Hz  $\pm$  10 %, 2 x 500 W (hot-swap).
- r. The power consumption of the device with full equipment (SATA3 RAID controller + SATA3 RAID with 8 x HDD + system SSD) shall be approx. 240 W.
- s. The operating temperature should be in the range of 0°C to +40°C.
- t. The device shall be CE certified.