

HD/SD Character Generator Kit
TC-200+CG-200



Datavideo's CG-200 and TC-200: an innovative HD CG system for mobile broadcasting, live conferences and dynamic video presentations. Using a standard laptop, it enables users to create and deliver attractive on-screen graphics and titles in real-time. It is easy to operate, designed to be intuitive and responsive under the pressure of a live event.

CG-200 and TC-200 works with standard Windows laptops with an HDMI interface and supports vision mixers with and without a DSK. Until now, real-time PC titling software has required an additional SDI adapter card to be fitted into a desktop PC. For live programming on location, a computer-based character generator can be problematic, in terms of the physical bulk of the PC, the need for an additional screen and the power requirement. CG-200 and TC-200 makes professional CG on the run a reality.

•DSK mode

As software only, CG-200 and TC-200 can work with a vision mixer equipped with a DSK. In this mode, CG-200 and TC-200 can be set up as the key source or fill source. It can work with any vision mixer (such as the Datavideo SE-2800 and SE-3000) that has a downstream keyer (DSK).

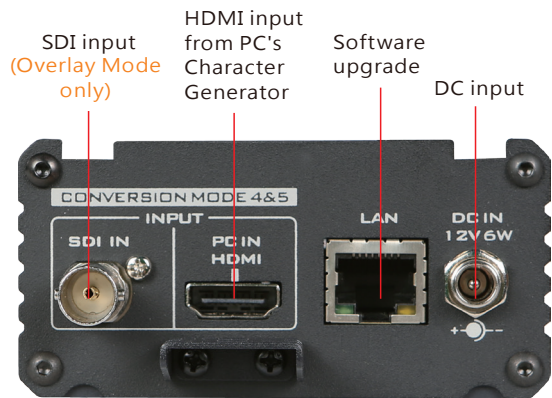
•Overlay mode

The Title Overlay mode overcomes the lack of a DSK in the vision mixer. Using the small external TC-200 hardware unit, The HDMI output from the laptop is embedded with the SDI output from a camcorder, VTR or vision mixer.

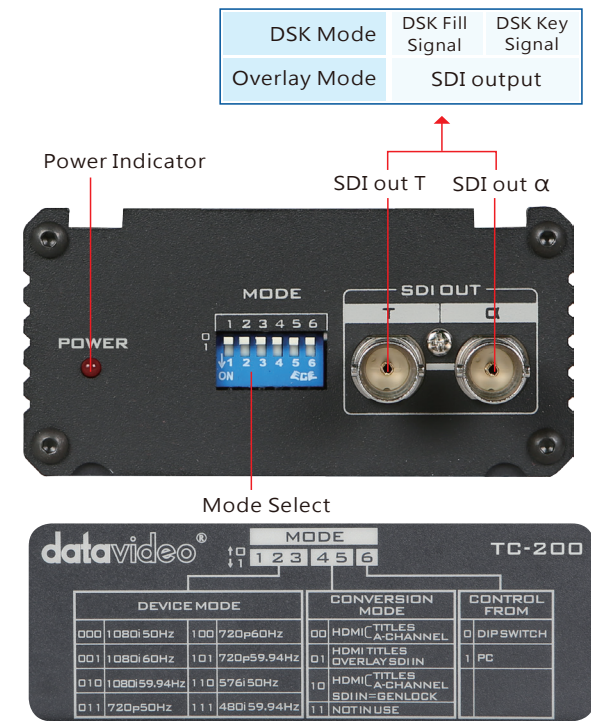
FEATURES

- Live Title Generator
- No additional PCI card required
- Supports DSK function (via HDMI) or SDI overlay function (with optional TC-200)
- Support HD/SD SDI input and output in Overlay mode
- Supports HD video with 1080i 50/ 59.94/60; 720p 50/59.94/60
- Supports SD video: 576i/480i
- Title editing on laptop
- compatible with Windows 7/8
- Supports all Windows fonts
- Multi-language support
- Supports animation including JPG, TAG, GIF, BMP, PNG
- Supports scrolling
- Title editing patterns include Slide, Reveal,...,etc.
- Easy logo set up
- TC-200 working voltage is 7-15V. It can be used with 7.2V & 14.4V batteries

TC-200 Front View

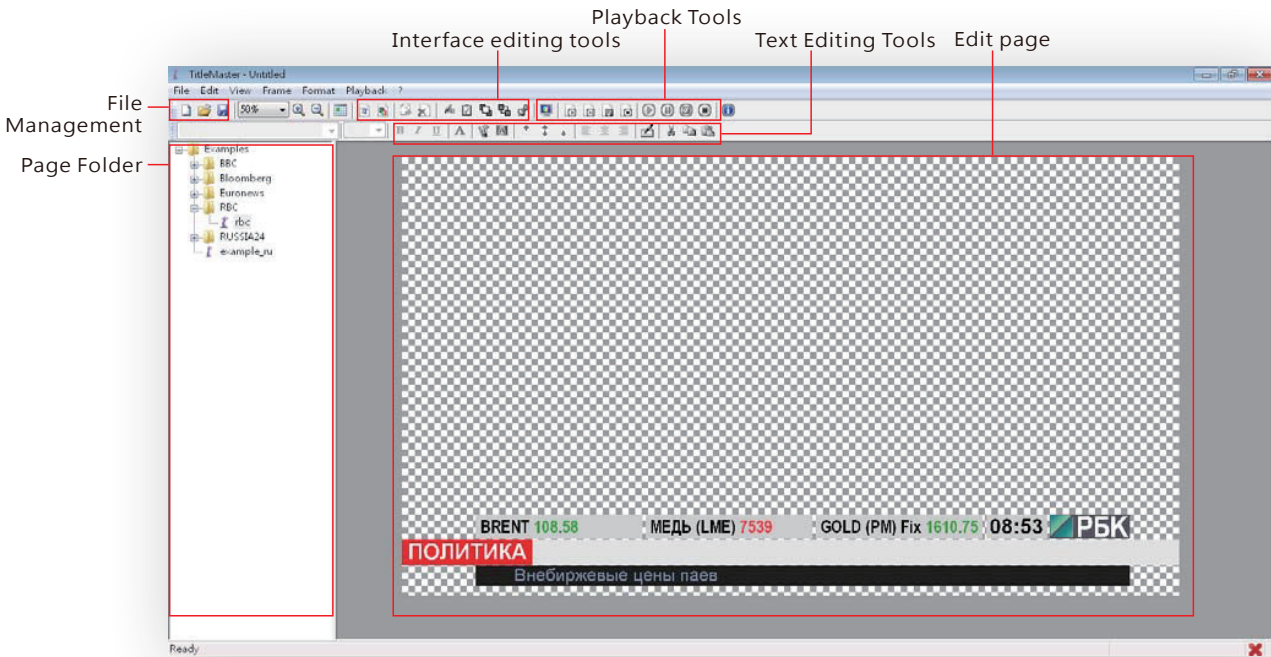


TC-200 Rear View



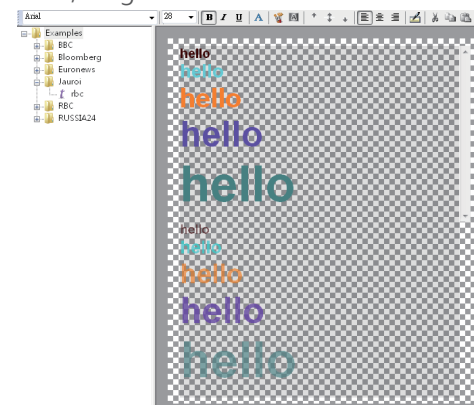
DSK Mode	DSK Fill Signal	DSK Key Signal
Overlay Mode	SDI output	

CG-200 INTERFACE



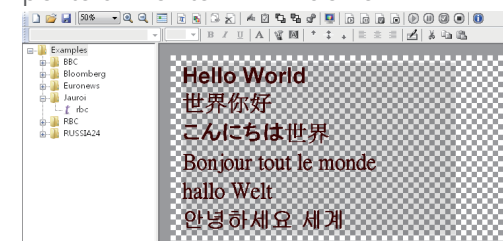
■ Text & animation tool

Color, size, transparency, board, location, alignment can be edited



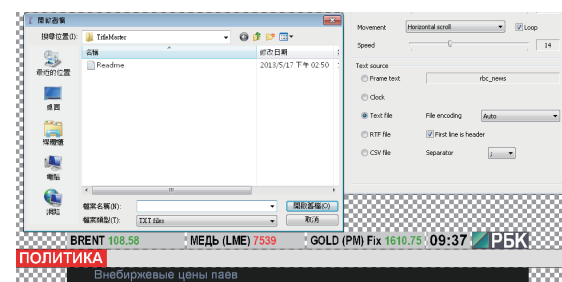
■ UNICODE

CG-200 adapts UNICODE. It supports all fonts in Windows



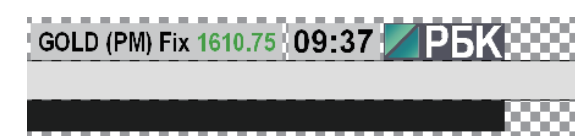
■ TXT file loading

CG-200 can import TEXT files



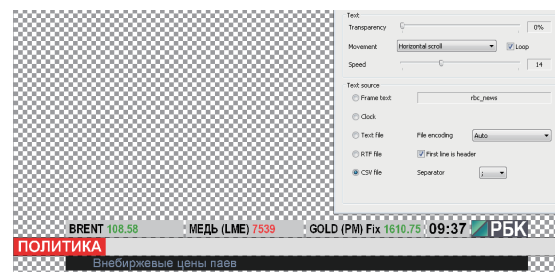
■ Clock function

Users can define the clock display of their choice



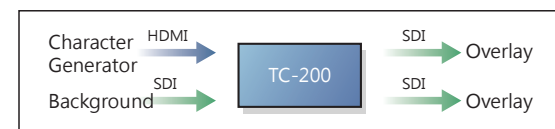
■ Scrolling function

Put all contents you need in text frame. Scrolling speed can be pre-set



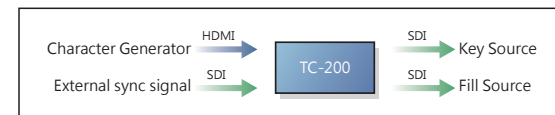
■ Overlay function

1.Overlay: TC-200 combines CG from the laptop' s HDMI port with the SDI video signal, overlaying graphics in real-time

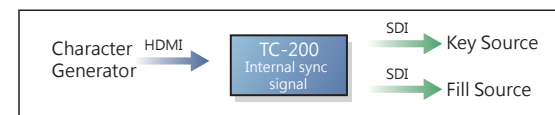


■ DSK functions

1.DSK with External sync signal: the CG-200 signal from the laptop' s HDMI port is synchronized with an SDI. TC-200 can refer to external sync and send out key source and fill source

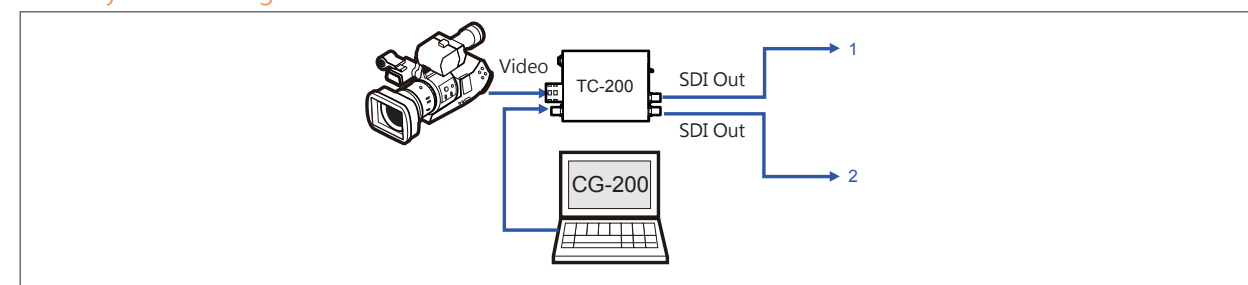


2.DSK with Internal sync signal: the CG-200 signal from the laptop' s HDMI port; TC-200 can refer to internal sync signal and send out key source and fill source.

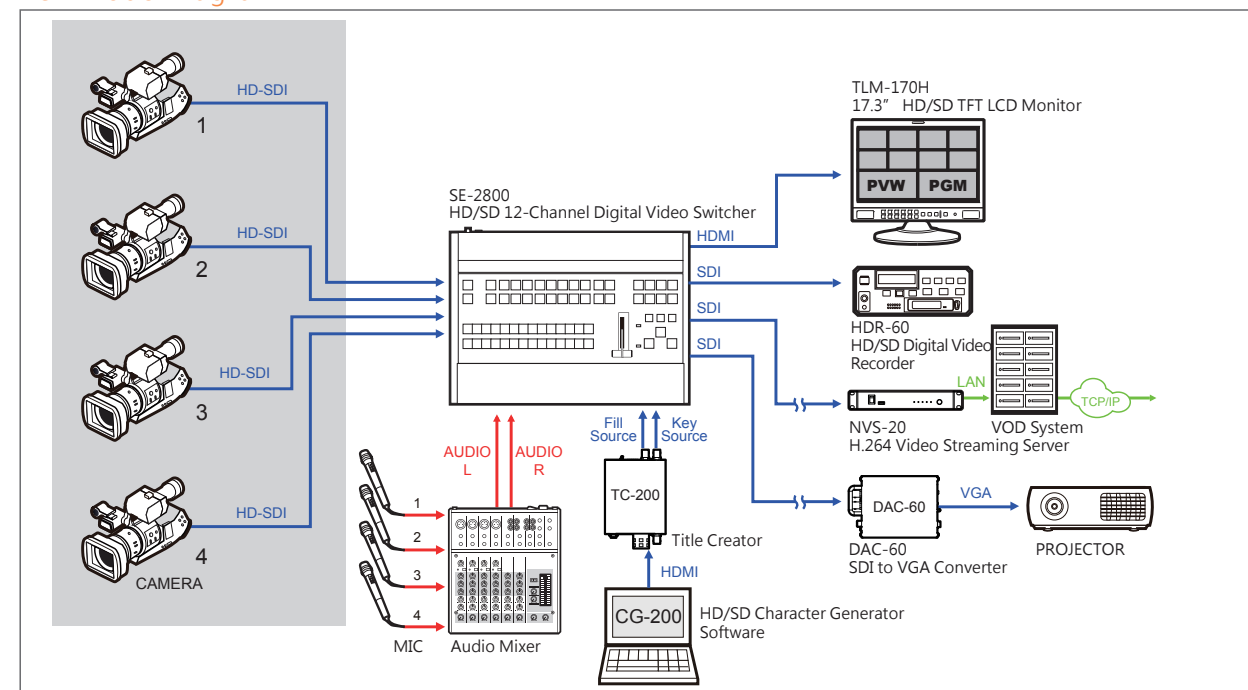


SYSTEM DIAGRAM

Overlay Mode Diagram



DSK Mode Diagram



SPECIFICATION

Text Sources

- Frame text
- clock
- text file
- CSV file

File Format

- JPG/ PNG/ BMP/ TGA/ GIF/ GIF

Animation Formats

- GIF

Input and Output Interface

- HDMI input x 1
- HD-SDI input x 1
- HD-SDI output x 2
- LAN port x 1

Mode

- CG overlay : HDMI input is CG; SDI in is live video
- Genlock mode : HDMI input is CG; SDI in is reference signal
- reference with internal signal : HDMI input is CG; SDI in isn't in use

Input Formats

- 1920x1080i/50Hz | 1920x1080i/50Hz
- 1920x1080i/60Hz | 1920x1080i/60Hz
- 1920x1080i/59Hz | 1920x1080i/60Hz (instead 1920x1080i/59Hz)
- 1280x720p/50Hz | 1280x720p/50Hz
- 1280x720p/60Hz | 1280x720p/60Hz
- 1280x720p/59Hz | 1280x720p/60Hz (instead 1280x720p/59Hz)
- 720x576i/50Hz | 1920x1080i/50Hz (crop to 720x576i/50Hz)
- 720x480i/59Hz | 1920x1080i/60Hz (crop to 720x480i/60Hz)

Conversion Mode

- HDMI signal is split into titles and alpha channel.
- HDMI signal is split into titles and alpha channel with Genlock
- HDMI titles overlay over the input SDI signal

Control

- by dip switch
- by PC

Voltage Range

- 7-15V DC (most of battery is 7.2V, 12V & 14.4V so will need to cover it)

Firmware Update

- Ethernet

System Requirements

- windows 7, 8
- 3GHz Processor
- 2Gb RAM

* Preliminary information for IBC 2013. Specifications can be changed without prior notice.

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