WORKSWELL COREPLAYER

Datasheet

CorePlayer functions overview

Thermal Camera Settings	
Camera connection	Supported cameras: Workswell **WIRIS**, Workswell Infrared Camera (**WIC**), Workswell GigE and USB3 modules for FLIR TAU2
Temperature range	According to type of camera you can set the temperature range to **Low** (usually -40°C – 150°C) or **High** (usually 0°C - 550°C) range
Source of image	As a source of image can be used **full image** (full sensor size) or only a part of the image specified by a rectangle **ROI** tool
Framerate	According to the camera you can change frame-rate from **1Hz to 30Hz**
Calibration	Using **Calibration** button you can activate **NUC** (non-uniformity compensation) to reach the best image quality and camera signal stabilization
Play/Pause	Using Play/Pause icon you can start and pause real time image streaming
Start recording/Snapshot	During radiometric thermal video acquisition (using **Start capture** button) you can save **snapshots** (Radiometric JPG) at the same time
Analog video settings	User can change **analog palette** and **isothermal mode**, insert **spot meter** into the image, select **video standard** (PAL or NTSC)
AVI Record	User can save live video streaming directly as **AVI format**. It is possible to change framerate and bitrate and display into the video **Palette bar**, **Bottom bar** and **ROI**
Thermal Image Settings	
Palette	User can choose from **14 palettes** – BlackRed, BlueRed, BWRGB, Fire, FLIR Iron, Gradient, Gray, Iron1, Natural, Rainbow, Sepia, Steps, Temperature, WBRGB
Interpolation	To obtain a smooth image without pixelization, user can interpolate the image
Units	Temperature can be displayed and calculated in **°C or °F**
Acquisition Parameters	User can set basic parameters as **Emissivity** (continuously in range 0.01 – 1.0 with step 0,01) and **Reflected temperature**
Advanced Parameters	In CorePlayer can be set/changed other parameters as **Atmospheric temperature**, **Humidity**, **Distance** and **Transmission of external optics**
Temperature Range	Interactive temperature range can be used in **manual** or **automatic** mode. Using it you can change the color distribution of temperatures to e.g. highlight details.
Isothermal Mode	User can set **Isothermal mode** of the image. CorePlayer offers four types of isotherms: **Below, Above, Between** and **Below and Above**. You can change the color of isotherm and of course the limit values.

Workswell CorePlayer

Measurement features

ROI analysis	User can insert into the image variety of measurement tools/ROI: **Point, Line, Polyline** and **Rectangle**. User can insert more ROIs into one image, change its color, replace it or delete ROIs that a user can see in the top-right subwindow
Zoom	User can **zoom** real-time streamed data, the acquired image or sequence – continuously, each mouse scroll zooms 0,5x
Measured Values	In each ROI can be measured and visualized **Min, Max, and Average** temperature. User can save temperature values from the ROI as **CSV file**

Graphs

Thermal Scanner	Temperature values for Line ROI could be visualized in **Thermal Scanner**. User can select number of lines and temperature range (manual or automatic)
Thermal Profile	All measured data can be displayed in real time **Thermal Profile** (for Line ROI). User can adjust range of **graph axis** and see the measurement **Target Cross** for fast and easy visualization of measured graph values
Time Graph	Temperature values from all ROI tools (for real time visualization or captured sequence measurement) can be showed into the **Time Graph**. User can adjust range of **graph axis** and see the measurement **Target Cross** for fast and easy visualization of graph values. For saved sequence can be set upper and lower **limit** for the temperatures in each ROI and x-axis in **relative or real time**

Radiometric Sequence

Playback	Radiometric video can be played **Backwards**, **Forwards**, show **Next frame or Previous frame** or play the sequence continuously in the **loop**
Processing	User can **cut** the video and save it into new file as radiometric sequence.

Additional functions

Export	User can export images into different file formats - save ***.seq** file as **Radiometric JPEG, PNG or CSV** file. Radiometric sequence can be exported to **AVI** file
Presentation Mode	For presentation purposes the live stream or acquired image can be displayed in **full screen mode** with image related controls.
User Interface	Intuitive and well-arranged **user interface**. User can change layout of sub-windows or restore layout to defaults
Image Information	The information about saved image in sub-window: **filename, camera type, captured date, resolution, emissivity and reflected temperature**
Camera Information	CorePlayer shows information about connected camera: **IP and MAC address, Camera manufacturer, Camera model, Name, Serial number** and **Resolution**
GPS Support	CorePlayer supports integration of **GPS data** from standard GPS receiver and display the position in Google Maps

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All pictures are only for illustration.
Real values may vary.

Report generation	
Report Contents	There are automatically shown **thermal images** and **time graphs** and parameters of the image: **emissivity, reflected temperature, atmospheric temperature, humidity, distance** and **transmission of external optics**
Additional Information	User can insert into a report: protocol **name**, **date and time** of measurement, company **logo**, **user/company name** and additional information about measured **area**
Communication Parameters	
Control Grades	User has possibility of three grades for camera control: **Beginner** (Basic functions), **Expert** (Advanced settings), and **Guru** (All adjustable functions)
Device Control	User can control large set of functions, i.e. **Image Format, Acquisition parameters, Counter and Timer, Events, Image Stream, Mono&Video, Object Parameters, IP settings** etc.
Communication Control	User can control: **Communication parameters** (Answer Timeout, Command Retry Count)**, HeartBeat, Connection ports, Streaming Pocket Size, Device GeniCam Access or Recovery Status**
Image Stream Control	Using this table can user change **Timeouts** (FirstPacket, InterPacket, Request) or check **IP address** of camera and device and variable **statistics**

Recommended Requirements	
Processor	Intel Core i5
Memory (RAM)	4 GB
HDD	4 GB available hard disk space
NIC	Gigabit Ethernet adapter and also a Gigabit Ethernet switch could be used for connecting more devices
OS	Windows 7
Minimum System Requirements	
Processor	Intel Core i3
Memory (RAM)	2 GB
HDD	At least 2 GB available hard disk space
NIC	1000 Mb/s, Jumbo frame 9kb
Special Hardware Requirements	
USB3 port	USB3 3.0 Standard-A
Gigabit Ethernet port	Gigabit Ethernet Network Interface Controller (NIC)

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