Specifications

SMART Document Camera-TM

Model SDC-450

Physical specifications

Size

25.4cm W x 7cm H x 30.5cm D (10" × 2 Folded

 $3/4" \times 12")$

20.3cm W x 55cm H x 38cm D (8" × 21 Set up

 $3/4" \times 15")$

2.45kg (5.4lb) Weight

48.2cm W x 14.5cm H x 32cm D (19" × 5 Dispatch size

 $3/4" \times 125/8"$)

4.5kg (10lb) Dispatch weight

Mixed reality

cube

Size 5.5cm W x 5.5cm H x 5.5cm D (2 1/8" × 2

1/8" × 2 1/8")

57g (2oz) Weight

All dimensions +/- 0.3cm (1/8"). All weights +/- 30g (1oz).

Standard features

Flexible camera arm with rotational movement for easy positioning and storage.

Lighting Built-in LED illumination lamp

Lens with manual and automatic focus f 6.26 (~30.75 mm); f 3.2 (wide) f 6.8 (tele) Lens

Zoom 8× optical, 10× digital, 80× total magnification

Resolution 5MP sensor and resolution

Frame rate 30 fps max.

Brightness Automatic and manual brightness control

control

Shooting area Max. 40cm x 30cm (15 3/4" × 11 3/4")



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Input/output connections

Video format Analogue composite format PAL/NTSC selectable 2-position switch; using RCA

connector with supplied RS-232 / composite video cable

VGA output Analogue RGB output 0.7V 75Ω unbalanced

XGA: 1024 × 768 60 Hz

SXGA: 1280 × 1024 60 Hz

HDTV 720p: 1280 × 720 60 Hz

HDTV 1080p: 1920 × 1080 60 Hz

DVI-I Provides both analogue and digital output formats

HD 1080p 60 Hz; HD 720p 60 Hz; XGA 60 Hz, SXGA 60 Hz

VGA input D-sub 15 pin pass through

USB connection USB mini-B (connect to computer)

SD memory card 1GB to 32GB

slot

Mass storage Change from camera to mass storage mode using on-screen display (OSD) to access

mode the SD card and internal memory via USB.

Internal memory Internal memory for storage of up to 240 images

Video recording Onto USB flash drive / SD / SDHC

Audio connections

Audio In 3.5 mm jack

(microphone)

Audio Out 3.5 mm jack

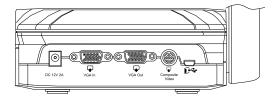
Microphone Built-in microphone for voiceover during video recording

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Connection panels

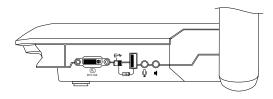
Rear panel

The rear connection panel has DC 12V 2A, VGA In, VGA Out, Composite Video out and USB mini-B connectors.



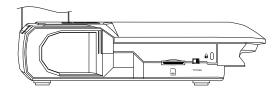
Left panel

The left connector panel has a DVI output, a switch for selecting either computer or USB flash drive and audio in and out connections.



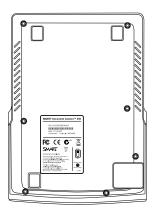
Right panel

The right connector panel has a SD/SDHC memory card slot, a switch for selecting VGA-DVI or composite video output and a security lock slot.



Bottom panel

The bottom panel has a NTSC-PAL switch to change the format of the composite video output for your television and a resolution reset button to reset the VGA/DVI resolution output to XGA.



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Power

Max. 21.6 W

consumption

Energy efficiency Level V Energy Star energy efficiency rating

Power source 100 - 240V, 50/60 Hz

DC power supply 12V, 2A

5.5 mm, no centre pin DC power socket

Includes plug adapters for power supply for North America, the United Kingdom, the

European Union and Australia.

Cables 1.5m (5') power cable

1.8m (5' 9) USB-A to USB mini-B

1.8m (5' 9") VGA cable, HD15, M-M

Composite video adapter cable (RS-232 / composite video)

Software SMART Notebook™ collaborative learning software and Mixed Reality Tools for the

SMART Document Camera are available from smarttech.com/software.

SMART Notebook 11 SP1 software or later is required for Mixed Reality Tools. See the SMART Notebook software release notes for a complete list of system requirements.

Mixed Reality Tools enables you to manipulate 3D models in .notebook files using your SMART Document Camera and mixed reality cube. For more information, see the

SMART Document Camera 450 user's guide (smarttech.com/kb/170279).

Supported

Windows® XP (32-bit), Windows Vista® (32-bit, 64-bit), Windows 7 (32-bit, 64-bit),

operating systems

Mac OS X 10.6 and later– Intel® only (PowerPC® not supported)

Also includes Mixed reality cube

Anti-glare sheet

Microscope adapter

Documentation Included with the product: registration card, warranty sheet, cautions and warnings and

quick connect guide. The user's guide is available online.

Warranty Five-year limited equipment warranty. See warranty document for details.

Environmental

compliance

EU RoHS, EU WEEE

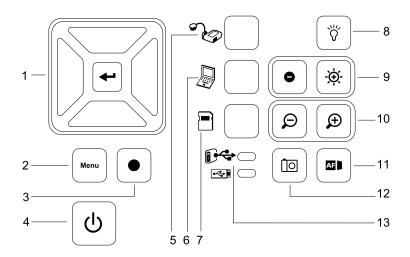
Regulatory certification

CB, CE, C-Tick, FCC

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User interfaces

Control panel



- 1 Select/Enter
- 2 Menu
- 3 Record video
- 4 Power ON/OFF
- 5 Select camera
- 6 Select computer pass-through
- 87 Select Playback
- 8 LED Lamp ON/OFF
- 9 Image brightness
- 10 Zoom IN/OUT
- 11 Auto-focus
- 12 Capture to SMART Notebook software or to local memory
- 13 USB usage indicator: computer or memory stick

OSD There are four tabs on the OSD menu: Image, Presentation, Setting and System.

Camera mode Image o Brightness: adjust the brightness level manually between 0 - 63 settings Contrast: adjust the contrast level manually between 0 - 255 Mode: select from six types of image settings (Sharp, Graphics, Motion, Microscope, Macro and Infinite) • Effect: convert the image into colour, black/white or film negative Mirror: select to flip the image o Advanced: select to set the Auto Image, Exposure and White Balance Focus: adjust the focus manually Rotate: select to rotate the image by 90° in Camera mode only Presentation • Picture in Picture (PIP): shows a thumbnail image of captured picture/video from the memory in the corner of the screen in Camera mode Split Screen: divides screen into two Timer: on-screen countdown timer

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Camera mode	
Setting	 Capture: set captured image options (resolution, quality and single/continuous)
	Recording: set recorded video quality
	 Storage: select SD memory card, USB flash drive or built-in memory
	Format: delete all data from the selected memory
	USB to PC: select the mode of your document camera
	 Flicker: select refresh rate between 50 Hz - 60 Hz
System	Language: select or change language
	o Output Display: set the resolution to display the image on screen
	 Backup: copy images from the built-in memory to a SD card or USB flash drive
	 Save Setting: save current setting in the selected profile number
	 Recall Setting: restore the setting back to the selected profile number
	Information: display product information
	Default: restore all settings to factory default settings

Microscope Microscope mode is supported with included adapter.

Operating specifications

Temperature 0°C to 35° (C32°F to 95°F)

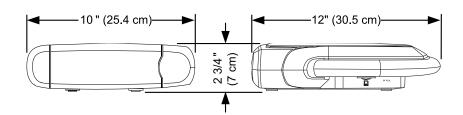
Humidity 30% to 85% humidity, non-condensing

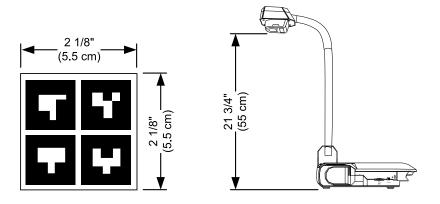
SMART order numbers

SDC-450 SMART Document Camera 450
 FRU-CUBE Replacement mixed reality cube
 1013550 Mixed reality collaboration cube

Physical dimensions

Front view





Mixed reality cube

Side view (set up)

Side view (folded)

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