



Annex G – Minimum Technical Requirements

Ref: ***CFT-EUI-ICTS-2019-002***

YEAR 2019

This document describes in detail the configuration of the monitors requested. It sets out the mandatory **Minimum Technical Requirements**.

All the monitors proposed must be available on the market when the Call for Tender closes. Prototypes will not be accepted.

Companies can propose products from the same brand for all of the three typologies or different brands per typology.

The Candidate may present only one configuration of the monitor proposed per typology. This configuration must respect the mandatory **Minimum Technical Requirements** described in detail in **Table 1, 2 and 3**.

Table 1 - Reference Monitor Configuration (small size typology)	
Description	This is the smallest typology available, with a screen size not smaller than 21.5 and not larger than 22.5
<i>The Configuration proposed must be equivalent or superior (except for the Screen Size) to the minimum requirements described below:</i>	
Screen Size	Not less than 21.5 and not larger than 22.5
LED Backlight	Yes
Maximum Resolution	$\geq 1920 \times 1080$
Refresh Rate	60 Hz
Brightness	$\geq 250 \text{ cd/m}^2$
Contrast Ratio	1000:1
Aspect Ratio	16:9
Response Time	$\leq 6 \text{ ms}$
Pixel Pitch	$\leq 0,28$
Display Colors	$\geq 16,7\text{M}$
Panel	IPS
Integrated Webcam	Yes
OSD Languages	Italian, English

Integrated Speakers	Yes
Connectors	1 Display Port, 1 HDMI (ver 1.4), 1 VGA
USB Ports	>= 2 USB 3.0
Power supply	100 – 240 V CA, 50/60 Hz
Power consumption	<=45 W (maximum), <=30 W (standard), <= 0,5 W (standby)
Stand Adjustments	Height-adjustable stand: >=130mm Tilt: >= -5 to >= 20 degree Swivel: 45 to 45 degree Pivot: >= 90 degree clockwise)
Weight (with stand)	<= 8 kg
Package Contents	Monitor with stand Power cable 1 x Display Port Cable 1 x VGA Cable 1 x USB 3.0 upstream cable
Manuals	All documentation manuals must be available in English or Italian and supplied electronically for the main components. Manuals in hardcopy format are not acceptable.
Certification	The hardware manufacturer must be certified to ISO 9001 (quality management system) or equivalent, see Art. 2.3 “Conformity” of the STS. The Tenderer shall enclose a copy of the certificate with Annex E (in Envelope no. 2).

Table 2 - Reference Monitor Configuration (medium size typology)	
Description	This is the medium sized typology available, with a screen size not smaller than 23.5 and not larger than 24.5
<i>The Configuration proposed must be equivalent or superior (except for the Screen Size) to the minimum requirements described below:</i>	
Screen Size	Not less than 23.5 and not larger than 24.5
LED Backlight	Yes
Maximum Resolution	$\geq 1920 \times 1080$
Refresh Rate	60 Hz
Brightness	$\geq 250 \text{ cd/m}^2$
Contrast Ratio	1000:1
Aspect Ratio	16:9
Response Time	$\leq 6 \text{ ms}$
Pixel Pitch	$\leq 0,28$
Display Colors	$\geq 16,7\text{M}$
Panel	IPS
Integrated Webcam	Yes
OSD Languages	Italian, English
Integrated Speakers	Yes
Connectors	1 Display Port, 1 HDMI (ver 1.4), 1 VGA
USB Ports	$\geq 2 \text{ USB } 3.0$
Power supply	100 – 240 V CA, 50/60 Hz
Power consumption	$\leq 45 \text{ W}$ (maximum), $\leq 30 \text{ W}$ (standard), $\leq 0,5 \text{ W}$ (standby)

Stand Adjustments	<p>Height-adjustable stand: ≥ 130mm</p> <p>Tilt: ≥ -5 to ≥ 20 degree</p> <p>Swivel: 45 to 45 degree</p> <p>Pivot: ≥ 90 degree clockwise)</p>
Weight (with stand)	≤ 9 kg
Package Contents	<p>Monitor with stand</p> <p>Power cable</p> <p>1 x Display Port Cable</p> <p>1 x VGA Cable</p> <p>1 x USB 3.0 upstream cable</p>
Manuals	<p>All documentation manuals must be available in English or Italian and supplied electronically for the main components.</p> <p>Manuals in hardcopy format are not acceptable.</p>
Certification	<p>The hardware manufacturer must be certified to ISO 9001 (quality management system) or equivalent, see Art. 2.3 “Conformity” of the STS. The Tenderer shall enclose a copy of the certificate with Annex E (in Envelope no. 2).</p>

Table 3 - Reference Monitor Configuration (large size typology)	
Description	This is the large sized typology available, with a screen size not smaller than 26.5 and not larger than 27.5
<i>The Configuration proposed must be equivalent or superior (except for the Screen Size) to the minimum requirements described below:</i>	
Screen Size	Not less than 26.5 and not larger than 27.5
LED Backlight	Yes
Maximum Resolution	>= 1920 x 1080
Refresh Rate	60 Hz
Brightness	>= 250 cd/m ²
Contrast Ratio	1000:1
Aspect Ratio	16:9
Response Time	<=6 ms
Pixel Pitch	<=0,35
Display Colors	>=16,7M
Panel	IPS
Integrated Webcam	Yes
OSD Languages	Italian, English
Integrated Speakers	Yes
Connectors	1 Display Port, 1 HDMI (ver 1.4), 1 VGA
USB Ports	>= 2 USB 3.0
Power supply	100 – 240 V CA, 50/60 Hz
Power consumption	<=70 W (maximum), <=40 W (standard), <= 0,6 W (standby)

Stand Adjustments	<p>Height-adjustable stand: ≥ 130mm</p> <p>Tilt: ≥ -5 to ≥ 20 degree</p> <p>Swivel: 45 to 45 degree</p> <p>Pivot: ≥ 90 degree clockwise)</p>
Weight (with stand)	≤ 9 kg
Package Contents	<p>Monitor with stand</p> <p>Power cable</p> <p>1 x Display Port Cable</p> <p>1 x VGA Cable</p> <p>1 x USB 3.0 upstream cable</p>
Manuals	<p>All documentation manuals must be available in English or Italian and supplied electronically for the main components.</p> <p>Manuals in hardcopy format are not acceptable.</p>
Certification	<p>The hardware manufacturer must be certified to ISO 9001 (quality management system) or equivalent, see Art. 2.3 “Conformity” of the STS. The Tenderer shall enclose a copy of the certificate with Annex E (in Envelope no. 2).</p>

All participating companies must use the form provided in **Annex E - "Summary of Technical Offer"**.