Doktor Jons - 'TRUSTED' © CCTV Camera Assessment Evaluation Score Sheet - Document C1(R)

Evaluation 1 / 2 - Date	/ /	Lighting Conditions	Camera No:
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This document is specifically designed to provide a simple straightforward way to evaluate how well a CCTV camera is performing, in relation to fulfilling the requirements for TRUSTED[®] status - in other words, can it effectively be used for identifying targets (e.g. individuals, faces, vehicle number plates etc.) within a key defined "recognition zone", producing usable evidential quality video recordings?

To gauge your completed C1 form, simply compare the answers against those scores listed below:-

Section 1 - PICTURE QUALITY						CAMERA	PASS
1.1 - The detail in the overall image -	Excellent 10	V.Good 8	Good 5	Fair 3	Poor 0	SCORE	/ FAIL
1.2 - The detail in the key 'recognition' zone -	10	8	5	3	0		
1.3 - The colour quality in the overall image	10	8	5	3	0		
(if using a B&W monitor, do not answer this question)							
1.4 - How good is the contrast / brightness	10	8	5	3	0		
1.5 - Describe the overall exposure level	10	8	5	3	0		
1.6 - How stable is the picture on the monitor	10	8	5	3	0		

Section 1A - TOTAL SCORE _____

(Indicate the average score for this section)

Add together the scores of 1.1 - 1.6 then divide by 6 [by 5 if B/W] = #1 Section 1A - AVERAGE SCORE ____

#1 Section 1A - FAIL if 'AVERAGE SCORE' is less than 7.5 points -

1.7 - Is there any 'tearing' or break up in the image	Awful 0	V.Poor	Obvious 4	Slight 6	None 10		
1.8 - How obvious is any Noise in the picture	0	2	4	6	10		
1.9 - Are vertical white lines or bars present in the image	0	2	4	6	10		
1.10 - Are horizontal dark bars seen moving from top to bottom	0	2	4	6	10		
1.11 - Can you identify a dark mesh across the entire screen	0	2	4	6	10		
1.12 - Any instability in the overall 'exposure' of the picture	0	2	4	6	10		
1.13 - Can you see any changes in the displayed colours	0	2	4	6	10		
1.14 - Is there any 'flaring' around bright light points	0	2	4	6	10		
1.15 - Is there any ghosting, or secondary image visible	0	2	4	6	10		

Section 1B - TOTAL SCORE _____

Add together the scores of 1.7 - 1.15 then divide by 9=

#2 Section 1B - AVERAGE SCORE ____

Section 2 - TARGET SIZE

2.1 - At nearest point what % height is the target on screen	80-100% <mark>10</mark>	60-80% 7	40-60% 5	20-40% 3	<20% 0	
2.2 - At furthest point what % height is the target on screen	10	7	5	3	0	
	30+%	20-29%	11-19%	5-10%	<4%	
2.3 - What % of picture edges is taken up by vertical areas	0	3	5	7	10	
2.4 - What % of the picture is taken up by horizontal areas	0	3	5	7	10	
2.5 - What percentage of the recognition zone is obscured	0	3	5	7	10	

Section 2 - TOTAL SCORE

Add together the scores of 2.1 - 2.5 then divide by 5 =

#3 Section 2 - AVERAGE SCORE

^{#2} Section 1B - FAIL if 'AVERAGE SCORE' is less than 7 points -

^{#3} Section 2 - FAIL if 'AVERAGE SCORE' is less than 7 points

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Section 3 - TARGET PRES		0								
3.1 - The cameras lens coverage [indicate your answer] >>>		Ultra wide	Wide	Normal	Narrow	V. Narrow	CAMERA	PASS		
3.2 - The front of the recognitio		V	V	V	V	V	SCORE	/ FAIL		
(distance from the camera		20	20	15	8	4		, , , , , , ,		
(1.11.11.11.11.11.11.11.11.11.11.11.11.1	5 - 9 metres	8	12	18	20	15				
	10 -19 metres	0	8	12	20	18				
	20 - 34 metres	0	0	4	12	16				
	35 - 49 metres	0	0	0	4	14				
[circle the score]	*50 - 100 metres	0	0	0	12*	20*				
* at distance using a powerful t	elephoto, varifocal or z	oom lens.								
3.3 - At what angle do targe	ts face the camera >>>	0 - 24	25 - 39	40 - 64	65 - 90	degrees				
3.4 - " " does the	camera point down									
	0 - 24 deg.	20	16	12	8					
	25 - 39 deg.	16	12	8	6					
	40 - 64 deg.	12	8	6	2					
[circle the score]	65 - 90 deg.	8	4	2	0					
3.6 - At what angle do targets r 0 - 24 deg. = 10 points, 25 - 39 65 - 90 deg. = 2 points, or	9 deg. = 7 points, 40 -	64 deg. = 4 po	oints,							
00 - 30 deg 2 points, or	completely randomly -	Z points,		Coation 2	TOTAL	SCORE				
Add together the seeres of 2	4 2 C than divide by	c -		Section 3						
Add together the scores of 3	.1 - 3.6 then divide by in 3 - FAIL if 'AVERAG					GE SCORE				
Section	III 3 - FAIL II AVERAG	E SCORE IS	1622 (116	an <i>r</i> pom	ıs -					
Section 4 - TARGET DURA Looking carefully at a 'target		recognition 7	one of	the displa	aved pict	ure				
4.1 - On average, how quickly		_			., o p. o .					
Stationary = 10 pts., V. Slow			Fast =	4 pts.,	V. Fast =	= 2 points				
4.2 - To what degree are target				1 - 7						
None = 10 pts., Slight = 8 pts	· · · · · · · · · · · · · · · · · · ·		= 4 pts.	. Unreco	ognisable	= 2 points				
4.3 - On average, how long wo	<u> </u>									
1+ minute = 10 pts., 20-59 se		•			s., 1-3 s	ecs.= 0 pts				
4.4 - Of this, how many second	ls would a target be cle	arly identifiable	e in the	recognition	n zone					
1+ minute = 10 pts., 20-59 se	ecs.= 10 pts., 11-19 s	ecs.= 8 pts.,	4-10 se	ecs.= 6 pts	s., 1-3 s	ecs.= 2 pts				
				Section 4	TOTAL	SCORE				
Add together the scores of 4	.1 - 4.4 then divide by n 4 - FAIL if 'AVERAG		#3 (Section 4	- AVERA	GE SCORE				

On completion of this form, if there are a number of cameras in the system, the overall scores for each unit can be transfered on to document SR1 (available on request) to allow a more detailed analysis.

This form can also be used in conjunction with the forms M1 (for Monitoring and Display Equipment), R1 (for the Recording System), LC1 (to gauge Legal Compliance) and TS1 (for a Complete System Analysis). Used individually or in combination, these check forms can produce an overall evaluation of key components, or indeed the entire system.

Further information is available from **Doktor Jon** - email to:- info@doktorjon.co.uk

PLEASE NOTE: **Doktor Jon** has provided these evaluation documents in good faith, and does not accept responsibility for the accuracy or suitability for any users individual situation. Likewise no responsibility will be accepted for any consequential loss or disadvantage resulting from their use.

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Lighting Conditions _____

				S - Section 1 lates specifically to general image quality.
	0 -	5 Points	- FAIL	- The system is performing at a level which is unacceptable. It is in need of serious improvement.
5	.1 -	6 Points	- FAIL	- With some remedial work, it could be brought up to an acceptable standard
				- Although generally in working order, the score suggest that further improvements are required
7.0)- 8.	.5 Points	- PASS	6 - The CCTV camera is working to an acceptable degree, although further minor improvements
				may well be necessary to get the very best out of the equipment.
8.6	6 - 1	0 Points	- PASS	- Overall a very good result, with only minor opportunities for improving the picture
Pa	rt B	of Sect	ion 1, a	ddresses possible technical problems that may need to be checked by a maintenance engineer.
	0 -	5 Points	- FAIL	- There are serious technical problems with the camera and / or transmission system.
5	.1 -	6 Points	- FAIL	- This score would tend to indicate one or two issues that could be addressed.
6.1	l- 6.	.9 Points	- FAIL	- Technical failings are probably minor in nature, and should be improved at minimal cost.
7.0)- 8.	.5 Points	- PASS	- The CCTV camera is fine overall, but may still present an opportunity for improvement.
8.6	3 - 1	0 Points	- PASS	- Possible minor technical issues should not provide any cause for concern.
RI	ESU	JLTS AI	NALYS	S - Section 2
0	- 6.	.9 Points	- FAIL	- Targets are not being reproduced on screen in an adequate size.
				The Camera / Lens combination and camera location will need to be carefully reconsidered, and improve
7.0)- 8.	.5 Points	- PASS	6 - The CCTV camera is fine overall, but may still present an opportunity for improvement.

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0 - 6.9 Points - FAIL - Targets are not being reproduced on screen in an ideal way. The Camera / Lens combination and camera location will need to be carefully reconsidered, and improved.

7.0- 8.5 Points - PASS - The CCTV camera is fine overall, but may still present an opportunity for improvement.

8.6 - 10 Points - PASS - Possible minor opportunities to further improve target display.

RESULTS ANALYSIS - Section 4

0 - 5.9 Points - FAIL - Targets are not being presented on screen for a long enough period.

The Camera / Lens combination and camera location will need to be carefully reconsidered, and improved.

6.0- 10 Points - PASS - The CCTV camera is working well overall, but there may be opportunities to reposition the unit to achieve still better results.

FINAL ANALYSIS -

In order for a camera to be 'TRUSTED' for Detection and Evidential use, it must PASS in all the sections If you add together the average scores for the four sections, then divide the sum by four, that will provide an overall average figure for the camera being evaluated, and should give some indication of performance.

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0 - 6.9 Points - FAIL - The cameras overall performance is below that required for 'TRUSTED' status.
7.0- 8.5 Points - PASS - The CCTV camera is working well overall, with a limited scope for further improvement.
8.6- 10 Points - PASS - The CCTV camera is performing extremely well, with only limited potential for 'fine tuning'.
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If you need any further information or wish to comment, or offer any feedback and suggestions to help future development of the 'TRUSTED'© project, please contact *Doktor Jon* - email to:- info@doktorjon.co.uk

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Camera No:

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valuation 1 / 2 - Date// Lighting Conditions	Camera No:
EAS of CONCERN (specifically, those components that failed th	e evaluation).
TION REQUIRED (Steps to be taken to remedy failures, and esti	mated timescale).
MMENTS	

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Alternatively, you can discuss TRUSTED© on Doktor Jons Forum - http://www.doktorjonsforum.co.uk

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