

# DIN CEN/TS 17051:2017-06 (E)

Full body photography; English version CEN/TS 17051:2017

---

<b>Contents</b>	<b>Page</b>
European foreword.....	4
Introduction .....	5
1 Scope.....	6
2 Normative reference.....	6
3 Terms and definitions .....	6
4 Abbreviated terms.....	7
5 Conformance.....	8
6 Data structures.....	8
6.1 Body Tree concept .....	8
6.2 Camera images.....	8
6.3 Metadata.....	9
6.3.1 General.....	9
6.3.2 Pose Angle - Yaw .....	9
6.3.3 Pose angle encoding.....	10
7 Recommendations for Full Body Photography Systems.....	11
7.1 Architecture .....	11
7.2 Usability and accessibility.....	11
7.3 Practical applications .....	11
7.4 Photograph sets .....	12
7.4.1 General.....	12
7.4.2 Gait recognition .....	12
7.4.3 Image recognition .....	14
8 Full body photography .....	14
8.1 Full body image technical requirements.....	14
8.1.1 General.....	14
8.1.2 Example full body photographs .....	14
8.2 Full body photography session .....	16
8.2.1 Typical workflow for full body photography session .....	16
8.2.2 Full body photograph content requirements.....	17
9 Photo studio recommendations for full body photography .....	17
9.1 General.....	17
9.2 Recommended camera orientation.....	18
9.3 Recommended positioning and distance between camera and subject .....	18
9.4 Recommended focusing settings .....	19
9.5 Recommended white balance settings .....	19
9.6 Recommended backdrop design .....	19
9.6.1 General.....	19
9.6.2 Example configurations for a photo studio.....	20
10 Photography Use Cases .....	21
10.1 General.....	21
10.2 Photographic System Baseline Use Cases.....	21

<b>11</b>	<b>Image Acquisition Measurement Methods .....</b>	<b>23</b>
<b>11.1</b>	<b>General .....</b>	<b>23</b>
<b>11.2</b>	<b>Exposure metering at various spots on a subject .....</b>	<b>24</b>
<b>11.3</b>	<b>Standard Test Chart Setup.....</b>	<b>24</b>
<b>11.3.1</b>	<b>The ISO 12233 Test Chart .....</b>	<b>25</b>
<b>11.3.2</b>	<b>Grey scale, colour checking and EN 61966-8 test charts.....</b>	<b>26</b>
<b>11.4</b>	<b>Measurement preparations and analysis .....</b>	<b>26</b>
<b>11.4.1</b>	<b>General .....</b>	<b>26</b>
<b>11.4.2</b>	<b>Preparations.....</b>	<b>27</b>
<b>11.4.3</b>	<b>Analysis .....</b>	<b>27</b>
<b>11.4.4</b>	<b>Camera image dynamic range checking .....</b>	<b>28</b>
<b>11.4.5</b>	<b>Lighting checking.....</b>	<b>28</b>
<b>11.4.6</b>	<b>Background checking.....</b>	<b>28</b>
<b>12</b>	<b>Summary.....</b>	<b>29</b>
	<b>Bibliography .....</b>	<b>30</b>