

ISO/TS 20490:2024-03 (E)

Measuring autofocus repeatability of sharpness and latency

Contents

Page

Foreword..... iv

Introduction..... v

1 Scope..... 1

2 Normative references..... 1

3 Terms and definitions and abbreviated terms..... 1

4 Test description..... 2

 4.1 General..... 2

 4.2 Test device settings..... 2

 4.3 Environmental conditions..... 2

 4.4 Apparatus and hardware..... 2

 4.5 Test distance..... 4

 4.6 Test charts..... 4

 4.6.1 General..... 4

 4.6.2 Recommended test charts..... 5

 4.7 Test conditions..... 5

 4.8 Sharpness measurement..... 6

5 Autofocus measurement..... 6

 5.1 General..... 6

 5.2 Camera test position and distances..... 6

 5.3 Capture test sequence..... 6

 5.3.1 Test sequence for continuous autofocus (AF-C)..... 6

 5.3.2 Test sequence for single autofocus (AF-S)..... 7

6 Presentation of results..... 10

 6.1 Result figure..... 10

 6.2 Reporting the results..... 11

Annex A (informative) Test setup and chart details..... 12

Annex B (informative) Test software and algorithm details: sharpness estimation algorithm..... 14

Annex C (informative) User reaction time test results during photo capture..... 17

Annex D (informative) Correlation between subjective sharpness and sharpness score..... 20

Bibliography..... 21