

CONTENTS

FOREWORD ..... 3

INTRODUCTION ..... 5

  

1 Scope ..... 6

2 Normative references ..... 6

3 Definitions ..... 6

4 Encoding characteristics ..... 7

    4.1 General ..... 7

    4.2 Transformation from CIE 1931 XYZ values to 16-bit scRGB values  
        ( $R_{\text{scRGB}(16)}$ ,  $G_{\text{scRGB}(16)}$ ,  $B_{\text{scRGB}(16)}$ ) ..... 7

    4.3 Transformation from 16-bit scRGB values  
        ( $R_{\text{scRGB}(16)}$ ,  $G_{\text{scRGB}(16)}$ ,  $B_{\text{scRGB}(16)}$ ) to CIE 1931 XYZ values ..... 7

  

Annex A (informative) Simple transformation between 8-bit sRGB and 16-bit scRGB  
values ..... 8

Annex B (informative) Non-linear encoding for scRGB: scRGB-nl and its YCC  
Transformation: scYCC-nl ..... 10

Annex C (informative) scRGB background information ..... 12

  

Bibliography ..... 16

  

Figure C.1 – Example workflow using scRGB ..... 15

  

Table B.1 – Quantization relationships using scRGB ..... 11