

Test 12.7.1.4.  
QUERY COLOUR VALUE

SEND TWICE  
BROADCAST  
RESET

Reset DUT

wait  
(300 ms + Response time)

8 SEND TO DEVICE TYPE  
BROADCAST  
QUERY COLOUR TYPE FEATURES

features = answer  
i := 0  
supp[0] := (answer and 0x1) > 0  
supp[1] := (answer and 0x2) > 0  
supp[2] := (answer and 0x1C) > 0  
supp[3] := (answer and 0xE0) > 0

supp[0] ?

Yes

Has DUT exchangeable light  
sources ?

Answer = 'YES' ?

No

i := 64

featuresMask = '00011101'b

i := i + 1

i > 82 ?

No

Yes

SEND SPECIAL COMMAND  
DTR1( 0xAA )

A constant test value

SEND SPECIAL COMMAND  
DTR(i)

8 SEND TO DEVICE TYPE  
BROADCAST  
QUERY COLOUR VALUE

(features and featureMask(i))  
!= 0 ?

Yes

Any reply ?

No

Error 7143,i  
"QUERY COLOUR VALUE  
did not return any info on  
implemented DTR value"

Yes

statusMask ( i ) != 0 ?

Yes

Yes

Any reply ?

Yes

Error 7141,i  
"QUERY COLOUR VALUE  
did reply for unimplemented  
DTR value !"

No

EXECUTE SEQUENCE  
Get16bitValue()  
msb  
lsb

( lsb = i )  
and (msb = 0xAA) ?

No

Error 7142,i  
"QUERY COLOUR VALUE for  
unimplemented DTR value  
changed DTR / DTR1 !"

Yes

No

val = "MASK" ?

Yes

Error 7144,i  
"QUERY COLOUR VALUE for  
active colour type related DTR  
value returns MASK !"

No

No

(status and statusMask(i))  
= 0 ?

Yes

val != "MASK" ?

Yes

Message 7141,i  
"Recalculation of requested colour value  
from the active colour type into a colour  
value of another colour type not possible !"

col := col + 1

col > 3 ?

Yes

i := i + 1

i = 256 ?

No

Yes

Test  
done

This table is filled dynamically.  
It will hold the supported colour types

	Supp	Type
0		xy
1		Tc
2		Primary N
3		RGBWAF

No

No