

TEST REPORT

Report No.: BCTC-151013420

Prepared for : **NUUO Inc.**

Address : B1, No. 207-1, Sec. 3, Beixin Rd., Xindian Dist., New Taipei City 231, Taiwan

Prepared by : Shenzhen BCTC Technology Co., Ltd.

Address NO.101, Yousong Road, Longhua New District, Shenzhen, Guangdong

P.R.China

Sample name : Network Video Recorder

Trademark : NUUO

M/N : NC-2xx0P

NVC-2xx0P (xx=00,02,04,06,08,10,12,14,16)

As requested by the applicant, submitted sample was screened by XRF

spectroscopy and inconclusive items were confirmed by wet chemical method

Test Requested: in accordance with EU Directive 2011/65/EU Annex II, for details refer to

attached page(s)

Test item : Cd、Pb、Hg、Cr⁶⁺、PBB、PBDE

Report Number: BCTC-151013420

Date of Test : Oct. 29 - Nov. 05, 2015

Date of Report: Nov. 05, 2015

Test by :

Review by :

Approve by

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Sample Name **Network Video Recorder**

Manufacturer SHENZHEN BAICHUAN SECURITY TECHNOLOGY CO., LTD.

5th Floor, Building 7, Tangtou 3rd Industrial Area, Shiyan Town, Bao'an District, Shenzhen City, China Address

Trademark NUUO

Applicant company **NUUO Inc.**

Address : B1, No. 207-1, Sec. 3, Beixin Rd., Xindian Dist., New Taipei City 231, Taiwan

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1. Test result:

Sample No.	Component Description	Test Item	XRF Screening Result(mg/kg)
		Cadmium (Cd)	N.D.
		Lead (Pb)	N.D.
A-1	WHITE PLASTIC	Mercury (Hg)	N.D.
		Chromium (Cr)	N.D.
		Bromine (Br)	N.D.
		Cadmium (Cd)	N.D.
		Lead (Pb)	N.D.
A-2	TRANSPARENT PLASTIC	Mercury (Hg)	N.D.
		Chromium (Cr)	N.D.
		Bromine (Br)	N.D.
		Cadmium (Cd)	N.D.
		Lead (Pb)	N.D.
A-3	BLACK PLASTIC	Mercury (Hg)	N.D.
		Chromium (Cr)	N.D.
		Bromine (Br)	N.D.
	PCB	Cadmium (Cd)	N.D.
		Lead (Pb)	N.D.
A-4		Mercury (Hg)	N.D.
		Chromium (Cr)	N.D.
		Bromine (Br)	N.D.
		Cadmium (Cd)	N.D.
		Lead (Pb)	N.D.
A-5	TIN	Mercury (Hg)	N.D.
		Chromium (Cr)	N.D.
		Bromine (Br)	N.A.
		Cadmium (Cd)	N.D.
		Lead (Pb)	N.D.
A-6	SCREW	Mercury (Hg)	N.D.
		Chromium (Cr)	N.D.
		Bromine (Br)	N.A.
		Cadmium (Cd)	N.D.
		Lead (Pb)	N.D.
A-7	GLUE	Mercury (Hg)	N.D.
		Chromium (Cr)	N.D.
		Bromine (Br)	N.D.

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Sample No.	Component Description	Test Item	XRF Screening Result(mg/kg)
		Cadmium (Cd)	N.D.
		Lead (Pb)	N.D.
A-8	HEAT-SHRINKABLE TUBE	Mercury (Hg)	N.D.
		Chromium (Cr)	N.D.
		Bromine (Br)	N.D.
		Cadmium (Cd)	N.D.
		Lead (Pb)	N.D.
A-9	BLACK WIRE	Mercury (Hg)	N.D.
		Chromium (Cr)	N.D.
		Bromine (Br)	N.D.
		Cadmium (Cd)	N.D.
		Lead (Pb)	N.D.
A-10	WHITE WIRE	Mercury (Hg)	N.D.
		Chromium (Cr)	N.D.
		Bromine (Br)	N.D.
		Cadmium (Cd)	N.D.
		Lead (Pb)	N.D.
A-11	YELLOW WIRE	Mercury (Hg)	N.D.
		Chromium (Cr)	N.D.
		Bromine (Br)	N.D.
		Cadmium (Cd)	N.D.
	GRAY WIRE	Lead (Pb)	N.D.
A-12		Mercury (Hg)	N.D.
		Chromium (Cr)	N.D.
		Bromine (Br)	N.D.
	RED WIRE	Cadmium (Cd)	N.D.
		Lead (Pb)	N.D.
A-13		Mercury (Hg)	N.D.
		Chromium (Cr)	N.D.
		Bromine (Br)	N.D.
		Cadmium (Cd)	N.D.
		Lead (Pb)	N.D.
A-14	SWITCH	Mercury (Hg)	N.D.
	OWITOIT	Chromium (Cr)	N.D.
		Bromine (Br)	N.D.
		Cadmium (Cd)	N.D.
		Lead (Pb)	N.D.
A-15	DIODE	Mercury (Hg)	N.D.
		Chromium (Cr)	N.D.
		Bromine (Br)	N.D.

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Sample No.	Component Description	Test Item	XRF Screening Result(mg/kg)
		Cadmium (Cd)	N.D.
		Lead (Pb)	N.D.
A-16	TRANSISTOR	Mercury (Hg)	N.D.
		Chromium (Cr)	N.D.
		Bromine (Br)	N.D.
		Cadmium (Cd)	N.D.
		Lead (Pb)	N.D.
A-17	PIN HEADER	Mercury (Hg)	N.D.
		Chromium (Cr)	N.D.
		Bromine (Br)	N.D.
		Cadmium (Cd)	N.D.
		Lead (Pb)	N.D.
A-18	METAL OXIDE FILM	Mercury (Hg)	N.D.
	RESISTOR	Chromium (Cr)	N.D.
		Bromine (Br)	N.D.
		Cadmium (Cd)	N.D.
	X CAPACITOR	Lead (Pb)	N.D.
A-19		Mercury (Hg)	N.D.
		Chromium (Cr)	N.D.
		Bromine (Br)	N.D.
		Cadmium (Cd)	N.D.
		Lead (Pb)	N.D.
A-20	CERAMIC CAPACITOR	Mercury (Hg)	N.D.
		Chromium (Cr)	N.D.
		Bromine (Br)	N.D.
	METALLIZED FILM CAPACITOR	Cadmium (Cd)	N.D.
		Lead (Pb)	N.D.
A-21		Mercury (Hg)	N.D.
		Chromium (Cr)	N.D.
		Bromine (Br)	N.D.
		Cadmium (Cd)	N.D.
		Lead (Pb)	N.D.
A-22	IC	Mercury (Hg)	N.D.
		Chromium (Cr)	N.D.
		Bromine (Br)	N.D.
		Cadmium (Cd)	N.D.
		Lead (Pb)	N.D.
A-23	MOSFET	Mercury (Hg)	N.D.
		Chromium (Cr)	N.D.
		Bromine (Br)	N.D.

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A-24	Sample No.	Component Description	Test Item	XRF Screening Result(mg/kg)
A-24			Cadmium (Cd)	N.D.
A-25 TRANSFORMER-BOBBIN A-26 TRANSFORMER-CORE TRANSFORMER-CORE TRANSFORMER-CORE TRANSFORMER-YELLOW Chromium (Cr) Bromine (Br) Cadmium (Cd) N.D. N.D. N.D. Chromium (Cr) N.D. Cadmium (Cd) N.D. N.D. N.D. N.D. Mercury (Hg) N.D. Chromium (Cr) N.D. Cadmium (Cd) N.D. Chromium (Cr) N.D. Cadmium (Cd) N.D. Cadmium (Cd) N.D. Cadmium (Cd) N.D. Lead (Pb) N.D. Cadmium (Cd) N.D. Lead (Pb) N.D. Cadmium (Cd) N.D. Lead (Pb) N.D.			Lead (Pb)	N.D.
Bromine (Br) N.A. Cadmium (Cd) N.D. Lead (Pb) N.D. Lead (Pb) N.D. Chromium (Cr) N.D. Bromine (Br) N.D. Cadmium (Cd) N.D. Cadmium (Cd) N.D. Lead (Pb) N.D. Lead (Pb) N.D. Chromium (Cr) N.D. Lead (Pb) N.D. Chromium (Cr) N.D. Bromine (Br) N.D. Cadmium (Cd) N.D. Cadmium (Cd) N.D. Cadmium (Cd) N.D. Lead (Pb) N.D. Cadmium (Cd) N.D. Lead (Pb) N.D. Cadmium (Cd) N.D	A-24	HEAT SINK	Mercury (Hg)	N.D.
A-25 TRANSFORMER-BOBBIN A-25			Chromium (Cr)	N.D.
A-25 TRANSFORMER-BOBBIN Lead (Pb) N.D.			Bromine (Br)	N.A.
A-25 TRANSFORMER-BOBBIN Mercury (Hg)			Cadmium (Cd)	N.D.
A-26 TRANSFORMER-CORE TRANSFORMER-CORE TRANSFORMER-CORE TRANSFORMER-YELLOW A-27 TRANSFORMER-YELLOW Chromium (Cr) Chromium (Cd) Chromium (Cd) N.D. N.D. N.D. Cadmium (Cd) N.D. Cadmium (Cd) N.D. N.D. N.D. N.D. Mercury (Hg) N.D. N.D. N.D. N.D. Mercury (Hg) N.D. N.D. N.D. N.D. Mercury (Hg) N.D.			Lead (Pb)	N.D.
Bromine (Br) N.D.	A-25	TRANSFORMER-BOBBIN	Mercury (Hg)	N.D.
A-26 TRANSFORMER-CORE			Chromium (Cr)	N.D.
A-26 TRANSFORMER-CORE			Bromine (Br)	N.D.
A-26 TRANSFORMER-CORE			Cadmium (Cd)	N.D.
Chromium (Cr) N.D. Bromine (Br) N.D. Cadmium (Cd) N.D. Lead (Pb) N.D. TRANSFORMER-YELLOW Mercury (Hg) N.D.			Lead (Pb)	N.D.
Bromine (Br) N.D. Cadmium (Cd) N.D. Lead (Pb) N.D. TRANSFORMER-YELLOW Mercupy (Hg.) N.D.	A-26	TRANSFORMER-CORE	1 1	N.D.
Cadmium (Cd) N.D. Lead (Pb) N.D. TRANSFORMER-YELLOW Mercury (Hg) N.D.			Chromium (Cr)	N.D.
Lead (Pb) N.D. TRANSFORMER-YELLOW Mercupy (Hg) N.D.			Bromine (Br)	N.D.
Δ-27 TRANSFORMER-YELLOW Mercury (Hg)			Cadmium (Cd)	N.D.
A-27 TRANSFORMER-YELLOW Mercury (Hg.)			Lead (Pb)	N.D.
''-' TADE '''O'O'' '''O''	A-27	TRANSFORMER-YELLOW TAPE	Mercury (Hg)	N.D.
Chromium (Cr) N.D.				N.D.
Bromine (Br) N.D.			Bromine (Br)	N.D.
Cadmium (Cd) N.D.			Cadmium (Cd)	N.D.
Lead (Pb) N.D.			Lead (Pb)	N.D.
A-28 TRANSFORMER-WHITE Moreum (Hg.)	A-28		` '	N.D.
Chromium (Cr) N.D.		NONWOVENS TAPE		N.D.
Bromine (Br) N.D.			Bromine (Br)	N.D.
Cadmium (Cd) N.D.		TRANSFORMER- ENAMELLED ROUND COPPER WIRE	` '	N.D.
Local (Db.)			1 1	N.D.
TIOUSI SIGNER	A-29		` '	N.D.
COPPER WIRE Chromium (Cr) N.D.			Chromium (Cr)	N.D.
Bromine (Br) N.D.			` '	N.D.
Cadmium (Cd) N.D.			` '	N.D.
Lead (Pb) N.D.				
A-30 LINE CHOKE-COPPER Mercuny (Hg)	A-30		` ′	
WIRE Chromium (Cr) N.D.		WIRE		
Bromine (Br) N.D.			` '	
Cadmium (Cd) N.D.			` ,	
Lead (Pb) N.D.			` '	
A-31 LINE CHOKE -YELLOW Mercury (Hg)	A-31		` ′	
TAPE Chromium (Cr) N.D.		TAPE	- · · · · · ·	
Bromine (Br) N.D.			` '	

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Sample No.	Component Description	Test Item	XRF Screening Result(mg/kg)
		Cadmium (Cd)	N.D.
		Lead (Pb)	N.D.
A-32	LINE CHOKE—CORE	Mercury (Hg)	N.D.
		Chromium (Cr)	N.D.
		Bromine (Br)	N.D.
		Cadmium (Cd)	N.D.
		Lead (Pb)	N.D.
A-33	LINE CHOKE -BOBBIN	Mercury (Hg)	N.D.
		Chromium (Cr)	N.D.
		Bromine (Br)	N.D.
		Cadmium (Cd)	N.D.
		Lead (Pb)	N.D.
A-34	LED	Mercury (Hg)	N.D.
		Chromium (Cr)	N.D.
		Bromine (Br)	N.D.
	SMD CAPACITOR	Cadmium (Cd)	N.D.
		Lead (Pb)	N.D.
A-35		Mercury (Hg)	N.D.
		Chromium (Cr)	N.D.
		Bromine (Br)	N.D.
		Cadmium (Cd)	N.D.
		Lead (Pb)	N.D.
A-36	SMD RESISTOR	Mercury (Hg)	N.D.
		Chromium (Cr)	N.D.
		Bromine (Br)	N.D.
	ALUMINUM ELECTROLYTIC CAPACITOR	Cadmium (Cd)	N.D.
		Lead (Pb)	N.D.
A-37		Mercury (Hg)	N.D.
		Chromium (Cr)	N.D.
		Bromine (Br)	N.D.
		Cadmium (Cd)	N.D.
	NACTALLIZED CU NA	Lead (Pb)	N.D.
A-38	METALLIZED FILM	Mercury (Hg)	N.D.
	CAPACITOR	Chromium (Cr)	N.D.
		Bromine (Br)	N.D.
		Cadmium (Cd)	N.D.
		Lead (Pb)	N.D.
A-39	CRYSTAL	Mercury (Hg)	N.D.
		Chromium (Cr)	N.D.
		Bromine (Br)	N.D.

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2. Chemical confirmation test

Sample No.	Component Description	Test Item	Chemical confirmation Result(mg/kg)
-	-	-	•

Remark:

- (1) P=Pass; F=Fail; IC=Inconclusive; N.A.=Not Applicable
- (2) N.D.= not detected, less than MDL
- (3) mg/kg = milligram per kilogram
- (4) MDL = method detection limit
- (5) IC# represents a region, the value fell on this area need further confirmation.
- (6) *1 Exceeds XRF screening limits, need further chemical confirmation.
- (7) #1 The test result is detected in the boiling-water-extraction solution and should not be interpreted as the Cr ⁶⁺ concentration in the surface of the sample.
- (8) #2 This value is based on the concentration of extraction of 50 cm² area of the sample.
- (9) XRF screening result for reference only.
- (10) The product photo was in the report provided by the applicant

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Test Method

1. XRF screening test

IEC 62321-1: 2013 for XRF screening limits in mg/kg for regulated elements in various material

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Element	Polymer	Metal	Composite Materials
Cd	P≤70 <ic< 130≤="" f<="" td=""><td>P≤70< IC < 130≤ F</td><td>P≤70< IC <150≤ F</td></ic<>	P≤70< IC < 130≤ F	P≤70< IC <150≤ F
Pb	P≤700< IC < 1300≤ F	P≤700< IC < 1300≤ F	P≤500< IC < 1500≤ F
Hg	P≤700< IC < 1300≤ F	P≤700< IC < 1300≤ F	P≤500< IC < 1500≤ F
Cr	P≤500< IC	P≤700< IC	P≤500< IC
Br	P≤300< IC		P≤250< IC

Method Detection Limits in mg/kg for regulated elements in various material

Flormant	MDL			
Element	Polymer	Metal	Composite Materials	
Cd	50	70	70	
Pb	100	200	200	
Hg	100	200	200	
Cr	100	200	200	
Br	200		200	

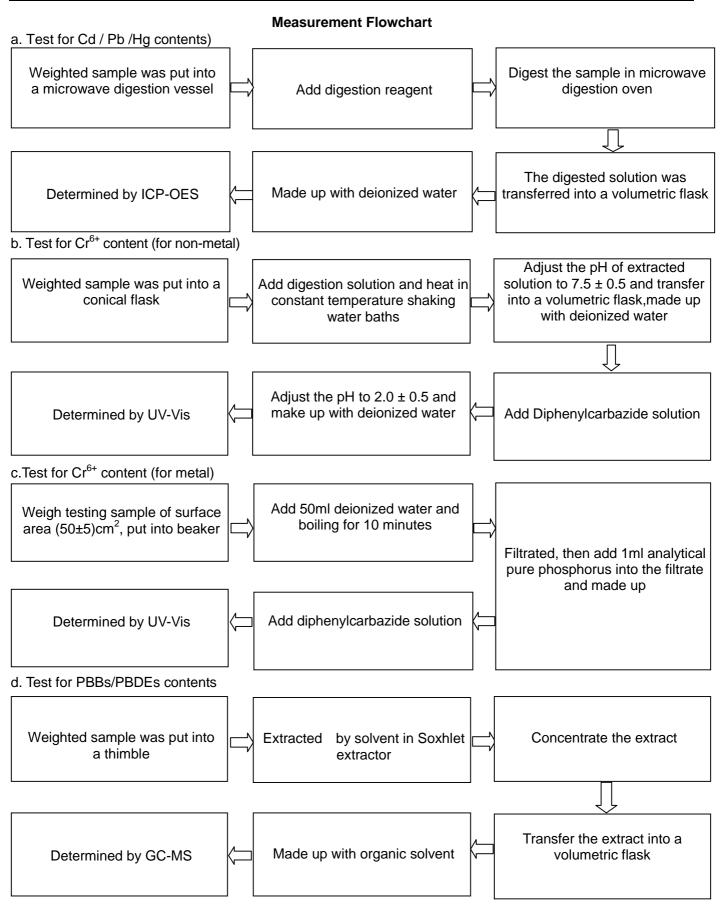
2. Chemical confirmation test

Test Item	Test method	Test instrument	MDL (mg/kg)	EU RoHS Limit (mg/kg)
Cd	IEC 62321-1:2013	ICP-OES	2	100
Pb	IEC 62321-1:2013	ICP-OES	2	1000
Hg	IEC 62321-1:2013	ICP-OES	2	1000
Cr ⁶⁺ (for non-metal)	IEC 62321-1:2013	UV-Vis	1	1000
Cr ⁶⁺ (for metal)	IEC 62321-1:2013	UV-Vis	0.02 ^{#2}	
PBBs	IEC 62321-1:2013	GC-MS	5	1000
PBDEs	IEC 62321-1:2013	GC-MS	5	1000

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Annex: Photo of Sample

Photo 1

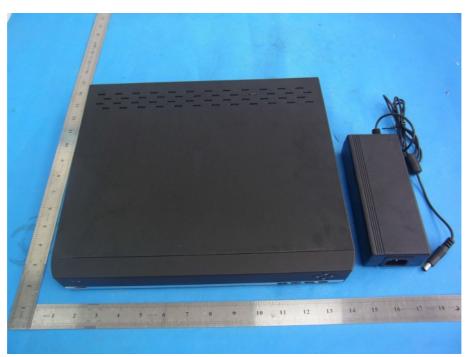


Photo 2



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Photo 3



Photo 4



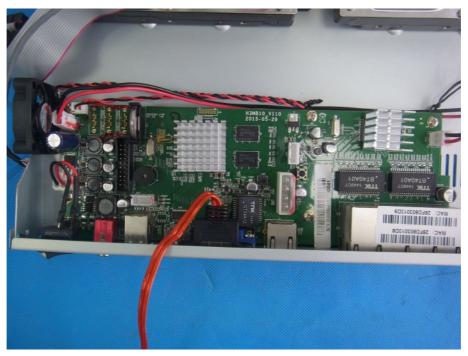
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Photo 5



Photo 6



******* END OF REPORT ******

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