

# **NUUO Nuface software**

## **Performance Test Report**

Prepared by NUUO Inc. in October 2015

## **Table of Contents**

Table of Contents.....	2
1. Introduction.....	1
2. Testing Environment.....	1
2.1 Hardware.....	1
2.2 Software.....	1
2.3 Test Scenario.....	1
3. Test Result .....	3
3.1 CPU Performance test result of Nuface server .....	3
4. Conclusion .....	4

# 1. Introduction

This document contains results of NUUO Nuface Server CPU performance test. It should help NUUO customers to design the project and compare the actual performance with their requirement.

## 2. Testing Environment

### 2.1 Hardware

#### 2.1.1 NUUO Crystal Server:

CT-8000R x 1

Firmware version: v3.1.0

#### 2.1.2 Client Server for Live view

test environment	Nuclient Liveview 1
Machine	PC
OS	Win7-64bit
IE	IE-11
CPU	I7 -4790 3.60GHz
Mainboard	ASUS H87
VGA	ASUS EAH5450

Table 1- client server spec

### 2.2 Software

NUUO Crystal Nuclient v.3.1.0 on Client Server.

NUUO Mainconsole v.6.1.0 on Client Server

NUUO Nuface v1.0 on Client Server

### 2.3 Test Scenario

#### 2.3.1 Video Source:

Due to the great amount of video stream is required, this test is conducted using Champ camera for video source, which are IP cameras with MJPEG codec. Each video is sourced from a IP camera whose bit-rate and resolution is set to be full-HD with a constant frame rate at 30 fps .

### **2.3.2 Camera Setting**

Video source x 16  
Resolution : Full-HD 、 720P 、 VGA 、 CIF  
Frame rate : 30fps  
Mode: Live view

### **2.3.3 Testing Criteria**

CPU Performance stability test – 8 hours :  
Connect to 16 ch IP cameras  
Distance : 30cm ~45cm  
Angles : 20 ~ 30  
Camera Setup distance : 2.4M

### **2.3.4 Pass Criteria**

- No drop-frame when playing archive video  
Tolerance level – 5%
- Archive video image in good condition
- No CPU loading too high - when archive video from max 16 cameras Tolerance level – below 80 %

### **2.3.5 Testing Architecture**

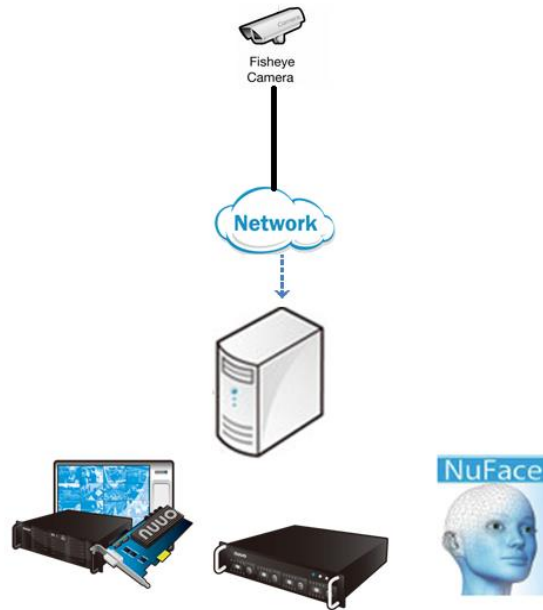


Figure 1: testing architecture

### 3. Test Result

#### 3.1 CPU Performance test result of Nuface server

The CPU loading of Nuface server is pretty stable as below figure.

MJPEG	
Resolution	CH Limitation
Full-HD	4
720P	5
VGA	10
CIF	16

## **4. Conclusion**

The Test Result is PASS.

NUUO Nuface server is capable to be mounted by two separated NUUO software : Crystal Nuclient, Mainconsole . Offering total 16 ch archive video streaming in Full-HD, 30 fps based on this performance test report.